

**GOVERNMENT OF JAMAICA/ WORLD BANK  
REFORM OF SECONDARY EDUCATION  
(R.O.S.E)**

***CURRICULUM GUIDE***  
***GRADES 7-9***

*for*

***CAREER EDUCATION***

***MATHEMATICS***

***LANGUAGE ARTS***

***SCIENCE***

***SOCIAL STUDIES***

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Kingston, Jamaica  
December, 1998

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## STATEMENT FROM THE MINISTER OF EDUCATION YOUTH AND CULTURE

*For some time now, there have been three major concerns about secondary education in all schools. These concerns are – the quality of the programmes offered, access to these programmes and the inequities in the system. Consequently, the government made the decision to embark on the Reform of Secondary Education (ROSE) in order to address these issues. At the centre of the reform is the development of a common curriculum and its implementation in all institutions offering grade 7 – 9 programmes.*


*It will not be easy to provide a uniform, high quality programme. There are some schools in which the transition will not be difficult, but these are in the minority. The greatest challenge we face is in the All Age schools where the largest group with the fewest opportunities is to be found.*

*It is important to remember that the new Junior High programme does not mean a new school building. Some buildings will be needed, and quite a bit of renovation in many schools, but the real change is in the curriculum to which the students will be exposed and in the examinations they will write.*

*The Ministry of Education Youth and Culture will try to provide greater equity of support to each school, but support by the community with words, work, materials and funds will be greatly appreciated as a major contribution to this national effort. It is accepted that the Ministry cannot be the sole provider, totally responsible for the operations of schools.*

*The School Board for each school is expected to play a major role when a Junior High programme is started. The active involvement of the Board will hasten the implementation of the Junior High programme in a school. Each school must meet the requirements of the new programme – teachers trained to deliver the curriculum, necessary buildings, and equipment and supplies. The Ministry of Education Youth and Culture wishes to enlist the support of the Private Sector and other members of the local community, in the provision of some of these requirements, so that the triple goals of quality, access and equity in education can become a reality.*

*I urge all of you who are concerned with the education of our young people to help in this secondary reform programme.*



Hon. Burchell Whiteman  
Minister of Education Youth and Culture

## STATEMENT FROM THE PERMANENT SECRETARY

*Preparations for the reform of secondary education have been underway for four years, during which a national curriculum was developed and piloted (in 1991) in four All Age Schools. This piloting was extended in 1992 to an additional seven which included All Age, Secondary and High schools. In 1993, fourteen All Age and ten Secondary schools were selected to join the programme. An additional ten schools are joined on a voluntary basis. Because of the comprehensive nature of the reform, it has to be phased over approximately fifteen years.*

*During the five years which constitute the first phase of the ROSE programme, (1993-1998) the Ministry expects to select fifty All Age schools and twenty-two Secondary Schools for entry into the Junior High programme. Before the end of this five-year period also, a study on the Senior High school system will be conducted, and the findings and recommendations used to inform the Ministry on what directions to take in respect of this level of the reform programme.*

*To complement the Ministry's efforts, the reform programme will be accelerated by allowing schools to request the programme before the Ministry's planned implementation date. Principals and teachers from schools which make this request will be given training and provided with curriculum and teachers' guides.*

*The training of Education Officers, Principals and teachers is a major focus of the Junior High programme. Through a joint Ministry of Education Youth and Culture / Joint Board of Teacher Education programme, intensive in-service training will be conducted for the Principal and for teachers of grades 7-9 in each selected school. The Education Officer has a key role to play in communicating the Ministry's reform policy locally, and in supervising the implementation of the Junior High programme.*

*The Ministry of Education Youth and Culture looks forward to the support of the Private Sector, Board Members, Principals, Teachers and Education Officers who are central to the success of the reform of secondary education.*



Mrs. Marguerite Bowie.  
Permanent Secretary

## STATEMENT FROM THE CHIEF EDUCATION OFFICER

*Proposals for the reform of secondary education have been on the agenda for the past several years. Regrettably, during this period, there has been a fall in education quality exemplified by over-all declining performances of secondary school students in internal and external examinations. A decrease in the allocation and use of instructional materials and equipment and a downward trend in the retention and supply of adequately and appropriately qualified teachers have also characterised the period. Not the least, have been growing discrepancies in the allocation of resources to the different types of schools. These circumstances have given rise to a multipartite system of secondary education which has tended to be inefficient and ineffective in a large measure.*

*Happily, the time for action to reverse the negative trends has arrived. In the school year 1993/94 a bold attempt was made through the Reform of Secondary Education Project to unify secondary education and to make it more relevant, effective and efficient. A Junior High School programme, which has as its cornerstone a good quality core curriculum, has been installed at Grades 7-9 of all secondary level school types over a period of fifteen to twenty years. The major thrust of the project is to increase access and equity, and to improve quality in terms of the teaching/learning environment which will further result in higher student gain in cognitive knowledge, skills and values. Undoubtedly, a strong commitment is required of students, teachers, parents, Education Officers, School Boards and communities to work cooperatively and diligently to improve educational quality at each school with the installation of the Junior High School programme.*

*It may be well to point out here that quality, and access to it, begins at the unit of the classroom. Here, students and teachers seek to interact constructively with instructional material and equipment. A culture of cooperative learning and excellence in achievement is defined and developed. A curiosity and questioning of the what, why and how of everything of significance become characteristic of the classroom environment; and the place of reading, information sharing and discussion assumes prominence. Each student is guided to realize his/her full potential and is prepared for the next stage of education.*

*I urge everyone, particularly School Boards, Principals and teachers to commit themselves to action to make this long awaited project a signal of success. Indeed, the project promises, and the students need a good quality secondary education. Our country, too, requires urgently a sound secondary education system. It seems to me, that it is in our power to contribute decisively to these needs and requirements.*

*I summon all to action.*



Wesley Barrett  
Chief Education Officer

## STATEMENT FROM THE CURRICULUM DEVELOPERS

*The Curriculum Guides and Teachers' Guides which set out the new curriculum for students in grades 7 – 9, have been prepared by the Ministry of Education Youth and Culture as the principal documents to guide and ensure the delivery of quality education to all secondary school students in Jamaica. This curriculum is known as the Common Curriculum, since it will eventually be implemented in all types of lower secondary institutions. The Guides represent the national requirements in the core subjects of Career Education, Language Arts, Mathematics, Resource & Technology, Science and Social Studies and in the additional subjects of Art, Drama, Guidance, Music, Religious Education, Physical Education / Dance and Spanish, which are gradually being brought on stream.*

*There are two new elements in the curriculum – first, Career Education, which is part of the Guidance programme offering. Career Education will increase students' understanding of their career options. It will also make demands on teachers and administrators, as it is to be infused into the other subjects to be taught.*

*The second new subject, Resource & Technology, is a composite subject, emanating from the traditional, single Technical and Vocational offerings. The common factor is the technological approach, which is the application of scientific knowledge of materials (resources) to the solution of practical problems. This course will lay a foundation for education and training in Grade 10. As an integrated subject, it too will require much cooperation and flexibility on the part of the teachers and administrators.*

*What is new in Language Arts, Mathematics, Resource & Technology, Science and Social Studies lies more in the approaches taken than in the specific content. Examples of new approaches are "Language across the curriculum", "Mathematics for the real world" and the use of over-arching themes which link two or more subjects. These new approaches require teachers to adopt new methodologies, such as "cooperative learning." Common planning time for teachers is another essential feature of the new programme.*

*Teachers should avail themselves of all the help and suggestions made in the Teachers' Guides, to enable them to master the changes in methodology. The recommended trend in all subjects is towards a more child-centered, less teacher-dominated approach, and it is expected that both teachers and students will benefit from this change. Finally, it is hoped that teachers, students and planners will, through trial and exploration, work out the most successful ways of tapping the energies and releasing the creativity of all our young people.*

*With very best wishes,*



Miss Isoline Reid, ACEO, Core Curriculum Unit



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## OVERALL AIMS FOR THE WHOLE CURRICULUM

### Background

**In Jamaica's Five Year Independence Plan (1963-68) the Government's aim for education was expressed as follows:**

The Government affirms its belief in education not only for its inestimable social value in enabling every individual, for his own sake, to develop his personality and his talents to the fullest extent, but equally that each individual might be enabled to make a maximum contribution to society in every respect.<sup>1</sup>

**This aim was translated into policy in the 1966 New Deal for Education. Among its goals was that of:**

Gearing the education of children in the age group 12-15 so that a greater percentage of pupils would be able to continue formal education – academic, vocational or technical – and benefit from that education, while those who do not will be better able to service Jamaica's manpower needs.<sup>2</sup>

**The Junior Secondary Schools built under this programme were to provide:**

1. Opportunities for all pupils to progress according to attainment, aptitude and ability.
2. A wide range of subjects which will stress the basics while exposing all pupils to a variety of practical areas. (It is felt that it is essential that each pupil by the age of 15 should have a good groundwork in the use of English as a communication skill and be able to do the calculations necessary to hold his or her own in everyday life. The practical subjects are thought to be necessary as a part of physical development and to give young people an appreciation for the use of tools and to help overcome the phobia which many people have for activities which involve the use of the hands.<sup>3</sup>
3. Opportunities for the proper development of those children who will go on to the secondary cycle of secondary education while providing opportunities for pre-vocational education for those who will not continue formal education but who will expect to be acceptable to employers for employment and training.

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<sup>1</sup> Five Year Independence Plan 1963-68: a long term development plan for Jamaica, Chapter 17 – Ministry of Education and Culture

<sup>2</sup> Idem.

<sup>3</sup> Idem.

**In 1983, a UNESCO team reported on the status of secondary education in Jamaica and identified major issues to be resolved. The team recommended a restructuring and rationalization of secondary education, centered on the provision of a common core curriculum for all students in Grades 7-9. Virtually all students in Grades 7-9 would have access to the same programme. The standard national curriculum would guarantee:**

the appropriate uniform level of knowledge in subjects such as language arts, in mathematics and science. There would be an introduction to practical work and industrial arts.<sup>4</sup>

## **Aims**

### **Education Programme Preparation Project (World Bank IV) (1989-92)**

The study, **The Reform of Secondary Education** which informs the curriculum development component of this project, defines a common curriculum as follows:<sup>5</sup>

A common curriculum is a plan of learning for all children in terms of content, goals and learning experiences; but it must allow for students of different levels of readiness to learn differently and at different rates. In effect, a common curriculum provides all children with the same basic subject matter, but it allows for children with different levels of readiness and ability to proceed at different rates of learning.

The **Study** justifies provision of a common curriculum for Grades 7-9.

Four specific objectives are: to achieve greater **equity** in the secondary school system to Grade 9, to improve the **quality** of learning, and to enhance individual **productivity**, and to provide **access** to secondary education up to Grade 9, for more students.

**EQUITY:** The most serious flaw in Jamaican secondary education is lack of equity. Children have unequal access to opportunities for learning. Some schools are more effective than others, partly because of the different resources and the use of those resources to provide quality education.

The provision of a common curriculum – along with supporting implementation measures – is recommended as one of the most likely methods of achieving equity in basic educational opportunities.

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<sup>4</sup> Ibid.

<sup>5</sup> The Reform of Secondary Education (2 vols.) World Bank/MOE & C, Jamaica, 1990, Chapter 3.



**QUALITY:** Providing equal access to education is one thing; providing equal access to quality education is another. There is a serious need for a general improvement in teaching. By the end of Grade 9, adolescents need to have the basics of quality education: literacy, numeracy and enough related knowledge, skills and attitudes to cope with their environment. The objectives of the common curriculum should help to realize these goals.

**PRODUCTIVITY:** The third objective of a common curriculum is to enable Jamaican students to be productive citizens, whether they continue their academic education, enter technical or vocational training, or enter the world of work. Every child needs a minimum set of cognitive competencies to be productive; and when the majority of students acquire them they will be trainable in the more complex job skills required in today's workforce. A basic education of nine years is essential if the majority of Jamaicans are to assume professional, skilled or semi-skilled positions, and if they are to have the capacity to acquire more education or training.

**Assess:** The aim is to increase the number of students accessing secondary education at Grades 10-11 and consequently tertiary education, in order to meet the needs of our nation.

### **The New Curriculum**

The curriculum development component of the World Bank IV Project represents the first step in the development of such a common curriculum for students in the first cycle of secondary education (Grades 7-9). This common curriculum is one way in which the Reform of Secondary Education is improving quality, equity, access and productivity.

The new curriculum will provide students with opportunities to experience a broad programme as a foundation for life, for further education and for employment. In the short-term it will:

- build on the knowledge, skills and attitudes acquired in primary school
- include a balance of academic and prevocational studies
- include a programme of remediation in literacy and numeracy
- lay the foundation for further study and for employment
- increase students' opportunities for enrichment and fulfillment
- enhance students' abilities to make choices that affect the quality and direction of their lives.

### Features of the New Curriculum

The new curriculum is designed to be:

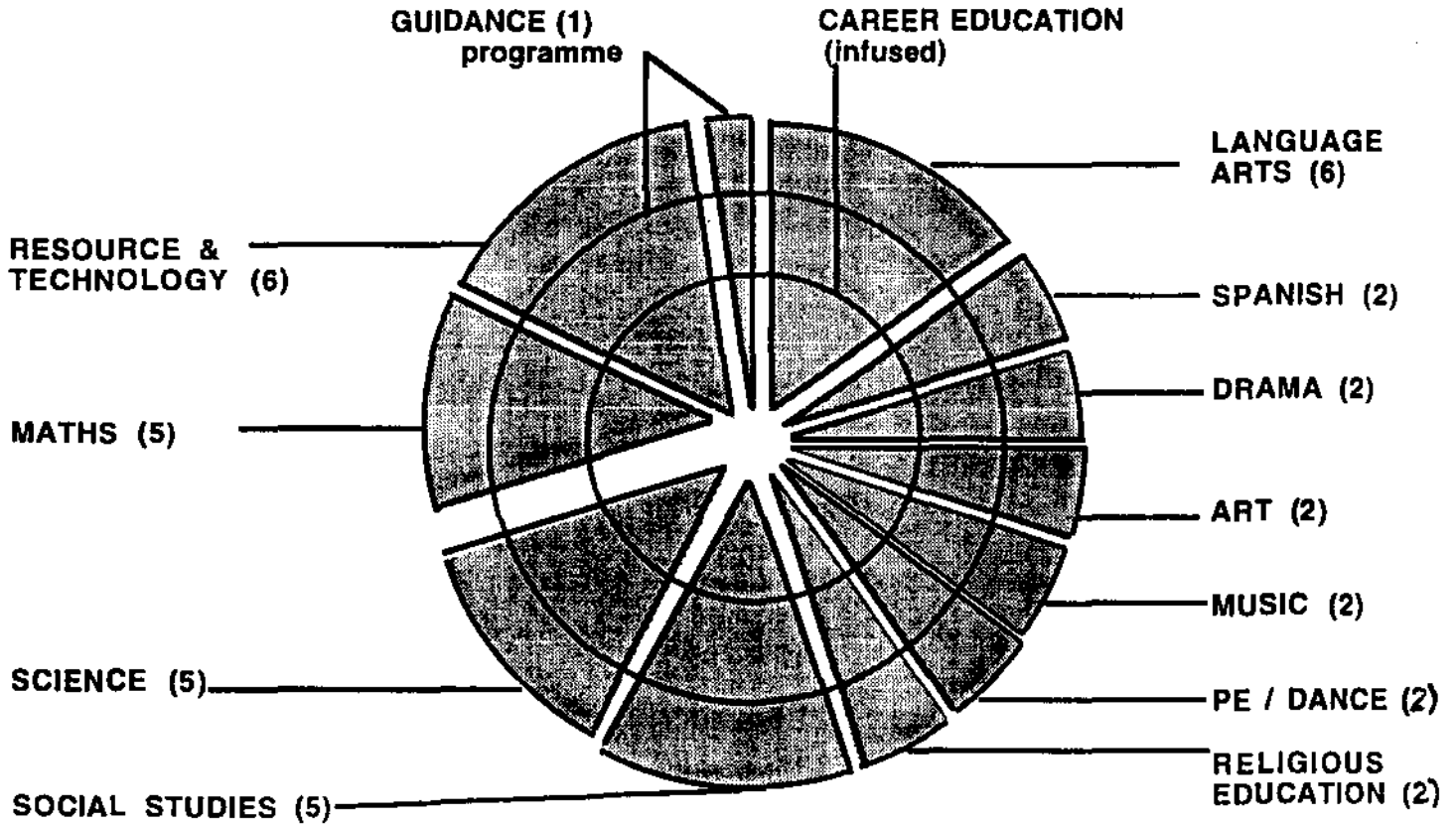
- **Responsive:** developed in response to national goals and student needs, by teams of teachers, education officers and specialists (Jamaican and international consultants).
- **Broad and balanced:** centered around five core subjects (Language Arts; Mathematics; Resource and Technology; Science; Social Studies) plus Career Education. (The Curriculum Framework is shown on page xii)
- **Multi-level:** (there are three levels: **Foundation 1** and **2**; **Normative** and **Enrichment**). While the content will be similar for all students, activities will vary to match the stages of development of the students in the class.
- **Articulated:** building on the primary school curriculum for Grades 1-6; preparing students for work or for CXC and other examination courses in Grades 10-11.
- **Differentiated:** certificates will reflect what each student has achieved.
- **Socially responsible:** students will work in collaboration with others and take on responsibility for their own learning.

### Long Term Objectives

The new curriculum will eventually provide some optional areas of study, clearly defined achievement levels and a final certificate based on statements of students' achievements.

# CURRICULUM FRAMEWORK

## ROSE JUNIOR HIGH PROGRAMME — THE CURRICULUM FOR GRADES 7 - 9



## **CAREER EDUCATION ACROSS THE CURRICULUM**

Career development is a life-long process which begins in the home, is nurtured throughout school life and is manifested in adult career choices.

In order to achieve the goal of career education across the curriculum, the curricula for Grades Seven to Nine are written in successive stages and scope and sequence.

Individuals progress through three stages of career development: Awareness, Exploration, Preparation :

### **Grade 7**

1. Awareness begins with self and career awareness-

### **Grade 8**

2. Exploration engages youngsters in activities to explore their own interests, abilities and values as well as to explore potential careers and opportunities

### **Grade 9**

3. Preparation builds upon the experiences and learning as the individual prepares to make meaningful and satisfying career choices-.

It is the responsibility of educators to guide this process by providing appropriate support and experiences to assist students through all stages. In particular, educators should:

- (i) expose all students to, and encourage them to explore non-traditional careers regardless of sex, race or ethnic background;
- (ii) help students develop positive attitudes towards work;
- (iii) prepare students for careers that are realistic and satisfying to them.

Career education is not a subject. It must:

- (a) be the link that joins career academic learning with the world of work.
- (b) be the tool that prepares students to make realistic career decisions as they acquire new experiences, values and goals.
- (c) be based on students' needs.
- (d) employ a team approach to teaching and learning.
- (e) include the infusion of Career Education elements into the entire curriculum.
- (f) address the needs of society as part of students' preparation to be responsible citizens.

The process of infusion involves:

- (a) the recognition/identification of the many Career Education concepts that are similar to those in other subjects areas;
- (b) the purposeful linking of the common concepts and /or areas of content identified at (a) so that they are not taught in isolation. Rather, there should be such constant cross-referencing amongst subjects that students perceive the common concepts as comprising necessary insights and information without which their education would be incomplete;
- (c) the use of methodologies and activities which ensure the development of skills and attitudes which appear in all subject areas in ways that demonstrate the relevance of these learnings and experiences to career choices.

The management of the process is important. Leadership must come from the Guidance Counsellor and /or Career Education Coordinator, but all staff members need to familiarize themselves with the main objectives of the Career Education Programme and to plan together for its effective implementation. The inclusion of career education information is very critical to the growth and development of the students. It is therefore imperative that it be explicit in lesson planning and delivery with an emphasis from the Grade Seven (7) level.

### **Methodologies/Strategies for Implementing Career Education**

For the most effective delivery of career education, it is necessary to use a combination of simple strategies which will not burden the classroom teacher or the guidance counsellor.

The main strategies are outlined below.

#### **1. Infusion**

The major delivery system is the infusion process by which the career education concepts are introduced and reinforced in the entire school curriculum thereby becoming an integral part of all its programmes – academic, practical, aesthetic. When efficiently used by classroom teachers, the infusion strategy strengthens and facilitates academic concepts and skills.

## **2. Career Counselling**

Career counsellors will engage in progressive, counselling through the Career Awareness, Exploration and Preparation stages. In time specially allocated to counselling, students must be engaged in activities leading to specific career education outcomes, by the time they reach the preparation stage.

## **3. Other Strategies**

There are many programmes, projects and activities which when properly planned and implemented should provide for students of all ages, the values and qualities of a productive career education experience. Among there are:

### **(a) The use of Homeroom/Form/Classroom Time**

- for the exploration of those aspects of the education of the adolescent which are not directly addressed through the formal curriculum, but which are important for the students' overall development.

### **(b) Mini Projects/Mini – Business (in –school or community based)**

- providing opportunity for planning, working together, sharing responsibilities, developing initiative and practising accountability.

### **(c) Exploration of the Environment**

- Encouraging students to explore the areas in which they live and/or attend school, and to develop an appreciation and understanding of the variety of physical and socio-economic conditions existing around them.

### **(d) Work Experience**

- Work experience opportunities, especially at the Career Preparation Stage provide exposure to the demands, responsibilities, rewards, and challenges of the world of work

### **(e) Intergenerational Programmes**

These provide opportunities for students to interact with senior citizens in the community regarding their life and work, to learn from them, to facilitate their becoming extended families of the school community.

In implementing these main strategies, a number of techniques and approaches which have proven successful in other contexts may be applied. These include:

- using films to provide information on careers and to reinforce appropriate behaviours for the work world.
- bringing resource persons into the classroom to help broaden students' exposure to role models, increase career information, and to motivate students to set education/career life goals.
- analysing jobs in terms of the skills, duties and tasks required of workers to clarify what workers actually do on the job and to help dispel inaccurate career information

These and other strategies and approaches are expanded and elaborated on in the Teachers' Guide

## LANGUAGE ACROSS THE CURRICULUM

Language is central to the whole curriculum process. Oral and written language are both essential to the thinking process which must take place in all areas of the curriculum.

John Carrol, (1974) states that:

*“the various forms of pictorial expressions are almost always accompanied by language and require language to make them intelligible”.*

Piaget, (1971) has written that:

*“language is but one among ... the many aspects of the semiotic functions even though it is, in most instances, the most important one”.*

According to Fillion (1991)

*“language across the curriculum stresses concern for how people learn to use language, how they use language to achieve understanding and appreciation of their experiences (including the curriculum content introduced in schools) and how language use influences cognitive development”.*

Broadening the concept somewhat, the writer argues that

*“language across the curriculum is primarily concerned with pupils’ ability to use reading, writing and talk for an increasing range of personal, social and educational purposes”.*

Even highly abstract processes in Mathematics and psychomotor activities use the medium not only in describing the techniques and processes but also in evoking responses.

The student who is articulate in oral and written language, who can use words to manipulate ideas, to shape thoughts and to understand key concepts, has an indispensable tool for all school learning because the ability to communicate through language is a necessary skill in all subject areas.

But what do we mean by language across the curriculum? It certainly does not mean that each subject teacher must take responsibility for teaching sentence structure, grammar and composition skills in the subject areas. Rather, language across the curriculum is “verbalization as the fulfilment of understanding within each subject area”. (Thaiss, 1984). This involves such factors as:



**students (in all subject areas)**

- using writing to order and classify thoughts
- learning the language appropriate to the subject
- using the increasing precision the vocabulary of their subject;

**teachers (in all subject areas)**

- modelling the language of their subject
- attending to the conventions of written language
- becoming sensitive to the role and varieties of language learning

The following learning skills which are traditionally regarded as the purview of the language teacher are shared by all subjects in the curriculum.

- |    |                                                        |   |                                                                                                            |
|----|--------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------|
| 1. | Locating information                                   | - | using encyclopedias and reference books and gathering facts from field trips and interviews.               |
| 2. | Organizing information                                 | - | outlining and categorizing                                                                                 |
| 3. | Acquiring information through reading                  | - | using strategies such as skimming and scanning and understanding the importance of pre-reading strategies. |
| 4. | Acquiring information through listening and observing  | - | setting purpose for listening and observing                                                                |
| 5. | Communicating orally and in writing                    | - | speaking with accuracy and pose, writing with clarity and exactness, using the writing process             |
| 6. | Interpreting pictures, charts, graphs, tables cartoons | - | constructing simple graphs, tables and other pictorial material including cartoons.                        |
| 7. | Evaluating and applying information                    | - | applying problem-solving and critical thinking skills                                                      |

Each subject area has its special needs although there are many held in common across the curriculum. The subject teacher needs to be aware of this and should provide learning situations which will foster the development and use of appropriate language.

## The Role Of The Teacher in Curriculum Implementation

Many adults remember their classroom experiences as situations where teachers passed on information which they passively tried to absorb, store and retrieve at appropriate times. Recent research, however, indicates that it is not through passive observation but by being actively involved in the learning process that effective learning occurs.

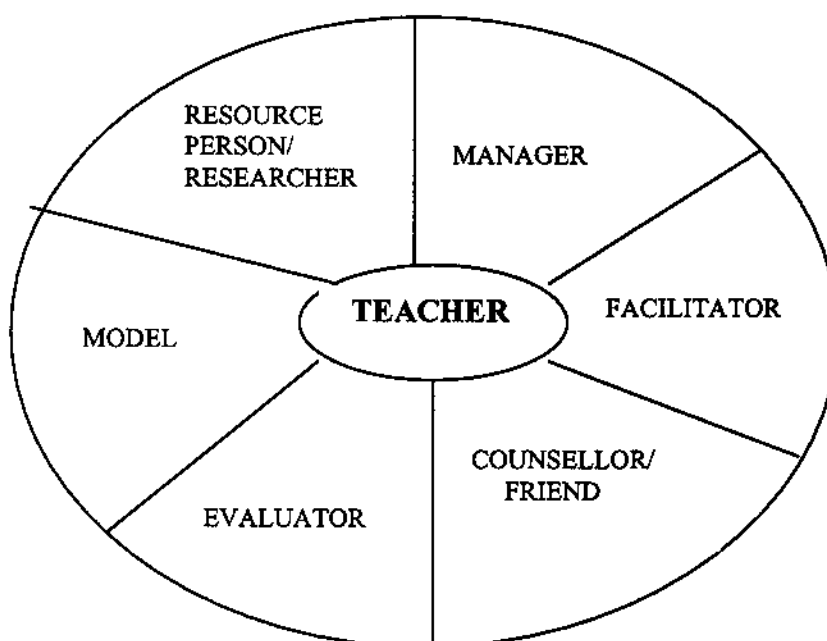
Each learner comes with previous knowledge and views of his environment into or onto which all new ideas must fit. The teacher is called upon to help the learner to reconstruct or reinforce previous ideas, and assimilate or accommodate new ideas. The teacher needs to create a non-threatening atmosphere in which the learner feels free to test and defend existing understanding and explore new ideas before accepting them.

The successful implementation of the curriculum depends largely on the teachers attitude to their subject and the methods employed in teaching. Instruction must be delivered through a wide variety of situations giving the students adequate opportunities for :

- individual and group assignments
- hands-on activities
- project work
- teacher/student interaction
- student/student interaction
- research methods etc.
- among other methods designed to foster problem-solving and creativity.
- self, peer and teacher assessments.

The teachers role in curriculum implementation is therefore a multi-faceted one. The teacher at times has to be manager, counsellor/friend, evaluator, role model and researcher/resource person among other roles that crop up from time to time.

### MULTIPLE ROLES OF THE TEACHER



### **The Teacher As Manager**

Teachers must be managers of their classroom and of instruction. As managers they should understand group dynamics and operate different types of grouping inside and outside the classroom. They should:

- encourage unity and co-operation among students.
- understand the students' needs and learning styles and use the information to plan lessons accordingly
- plan lessons carefully to maximize the time students spend 'on task'
- adapt the curriculum materials to suit the range of levels and abilities within the class
- promote the development of critical thinking and problem solving skills
- adopt a combination of leadership styles, being neither too permissive or too authoritative

### **The Teacher As Counsellor/Friend**

Teachers in their roles as counsellor/friend need to create a classroom environment that is purposeful, relaxed, warm and supportive. They should:

- maintain classroom climate that is supportive of learning and characterized by mutual respect, trust and democratic decision making
- show empathy for all students and establish and maintain a relaxed, friendly yet business like working environment
- accept students non-judgementally
- enhance pupils self-esteem and self-respect
- liaise with parents and the wider community in order to involve them in the childrens' growth
- show concern about general behaviour and attitudes, personal and social development and any individual needs they may have.

### **The Teacher As Evaluator**

Teachers as evaluators provide specific information on students performance. They confirm or verify the students' accomplishments, difficulties or social behaviours. The teachers should:

- use a variety of modes to monitor students' progress
- provide appropriate feedback on students' performance
- record and use results from students' evaluation to improve student performance, enhance their own teaching and to help students achieve prescribed attainment levels

- assist students to evaluate their own progress through the use of self-assessment activities
- assess their own performance

### **The Teacher As Role Model**

In the classroom the 'hidden curriculum' is continuously operating. Students gain not only knowledge and skills but also imbibe attitudes, values and behaviours. Teachers therefore need to:

- demonstrate appropriate behaviour for students
- keep abreast of current affairs and encourage students to do the same

### **The Teacher As Facilitator**

Teachers as facilitators should provide stimulating learning situations. In order to do this, they should:

- set up learning activities which effectively achieve the learning outcomes intended for each pupil
- stimulate students' interest in learning ,using appropriate activities and methodologies
- be able to elicit information from the students rather than rely on the 'telling' mode of instruction
- aim for student centered, activity oriented instruction, moving from the teacher centered approach
- provide opportunity for purposeful, task oriented and hands- on activities thereby facilitating active learning
- motivate students, offer challenges and vary methods of activity
- deliver instruction through a wide variety of methodologies
- encourage and foster creativity in students
- ensure that students at all levels of ability and attainment are given opportunities to participate in challenging activities to promote the development of skills

## **The Teacher as Researcher/ Resource Person**

Teachers as the students first resource persons need to know their subject well. They need to be aware of available resources and lead pupils to access these. In a world where knowledge is constantly changing, teachers need to:

- constantly upgrade skills and abilities through reading and research
- keep abreast of current developments in the field of education
- encourage students to keep abreast of information through wide reading and the use of electronic media.

### **Conclusion**

The roles of teachers are many and varied. In accordance with the tenets of educational practices about the teaching/learning situation, teachers need to display appropriate attitudes and a wide range of skills and abilities. These should include flexibility, effective interaction, competence in curriculum delivery, the use of technology and a variety of appropriate resources.

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## ACKNOWLEDGEMENTS

We would like to acknowledge the contribution made by the following people in the initiation, planning and preparation of this document.

- Dr. Deloris Brissett, Assistant Chief Education Officer, Evaluation and Guidance Unit.
- Mr. Arlie Dyer, Assistant Chief Education Officer, Tech/Voc Curriculum Unit.
- Mrs. Lola Williams, Assistant Chief Education Officer, Core Curriculum Unit.
- Ministry of Education Officer in the Evaluation and Guidance Unit, Mrs. Nedris Ellis.
- Dr. Audrey Aarons, International Consultant (Curriculum) who guided the Education Officers through the initial stages of the curriculum development process.\*
- Mrs. Janet Johnson, former Educator, World Bank IV Project.
- Teachers in the pilot schools in St. Thomas, who by their involvement in workshops and discussion in the schools, helped in the shaping of the Curriculum.
- The wider group of guidance counsellors and teachers from across the island, who attended workshops and assisted in refining the curriculum and identifying activities.
- The Administrative Staff of the World Bank IV Project and EDC local and head office, who assisted member of the Career Development Education team in the preparation of materials.
- Reviewers

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+ Under contract to International Education Consultants Limited, Kingston, Jamaica

### Final Review

- Mrs. Marjorie Vassell, Core Curriculum Unit.
- Ms. Cherry Davis, Core Curriculum Unit.
- Mrs. Hurlene Hall Guidance & Counselling Unit for co-ordinating the review and writing the document.
- Dr. Deloris Brisset for critiquing the material.  
Mrs. Hyacinth Peart & Mrs. Monica Holness, Guidance & Counselling Unit for critiquing the material.
- Other officers of the unit for general support.
- The Secretariat staff; Miss Cecelia Sherwood, Miss Rhona Jones and Mrs. Lindsay for Secretarial Services.

**GOVERNMENT OF JAMAICA/ WORLD BANK  
REFORM OF SECONDARY EDUCATION  
(R.O.S.E)**

***CURRICULUM GUIDE***

***CAREER EDUCATION***

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Kingston, Jamaica  
December, 1998



CURRICULUM GUIDE -- CAREER EDUCATION

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## GOALS AND GENERAL OBJECTIVES

### GOALS

The major goals of the Career Education Curriculum are:

1. Developing self awareness
2. Fostering career awareness in students.
3. Guiding students in career exploration.
4. Assisting students in career preparation.

These goals recognise and reflect the stages of career development which are: Awareness, Exploration and Preparation.

### GENERAL OBJECTIVES

#### Grade 7

1. In order to foster self awareness, the curriculum is designed to assist students to:
  - (i) discover and clarify their individual aptitudes, interest and aspirations;
  - (ii) link their individual interests and aspirations to career options;
  - (iii) link their performance in other subjects to their career options.

#### Grade 8

2. In order to provide guidance in career exploration, the curriculum is designed to assist students in:
  - (i) the development of their abilities, gaining knowledge to analyze and evaluate themselves and their relationships with others;
  - (ii) gaining knowledge and understanding of entry requirements for careers of interest to them;
  - (iii) investigating the day to day activities, rewards, disadvantages and advantages related to career options;
  - (iv) matching career planning to other life goals.

#### Grade 9

3. To facilitate career preparation the curriculum is designed to assist students to:
  - (i) continuing to investigate the process of self-evaluation and relationship building;
  - (ii) developing skills in accessing processing and using career information;
  - (iii) acquiring appropriate knowledge, general skills and attitudes for the world of work;
  - (iv) developing job search skills.

## **CAREER EDUCATION ACROSS THE CURRICULUM**

Career development is a life-long process which begins in the home, is nurtured throughout school life and is manifested in adult career choices.

In order to achieve the goal of career education across the curriculum, the curricula for Grades Seven to Nine are written in successive stages and scope and sequence.

Individuals progress through three stages of career development:

### **Grade 7**

1. Awareness, which begins with self and career awareness.

### **Grade 8**

2. Exploration, which engages youngsters in activities to explore their own interests, abilities and values as to explore potential careers, and opportunities

### **Grade 9**

3. Preparation, which builds upon the experiences and learning as the individual prepares to make meaningful and satisfying career choices.

It is the responsibility of educators to guide this process by providing appropriate support and experiences to assist students through all stages. In particular, educators should:

- (i) expose all students to, and encourage them to explore non-traditional careers regardless of sex, race or ethnic background;
- (ii) help students develop positive attitudes towards work;
- (iii) prepare students for careers that are realistic and satisfying to them.

Career education is not a subject. It must:

- (a) be the link that joins career academic learning with the world of work.
- (b) be the tool that prepares students to make realistic career decisions as they acquire new experiences, values and goals.
- (c) be based on students' needs.
- (d) employ a team approach to teaching and learning.
- (e) include the infusion of Career Education elements into the entire curriculum.
- (f) address the needs of society as part of students' preparation to be responsible citizens.

The process of infusion involves:

- (a) the recognition/identification of the many Career Education concepts that are similar to those in other subjects areas;
- (b) the purposeful linking of the common concepts and /or areas of content identified at (a) so that they are not taught in isolation. Rather, there should be such constant cross-referencing amongst subjects that students perceive the common concepts as comprising necessary insights and information without which their education would be incomplete;
- (c) the use of methodologies and activities which ensure the development of skills and attitudes which appear in all subject areas in ways that demonstrate the relevance of these learnings and experiences to career choices.

The management of the process is important. Leadership must come from the Guidance Counsellor and /or Career Education Coordinator, but all staff members need to familiarize themselves with the main objectives of the Career Education Programme and to plan together for its effective implementation. The inclusion of career education information is very critical to the growth and development of the students. It is therefore imperative that it be explicit in lesson planning and delivery with an emphasis from Grade Seven (7) level.

**Topic I: SELF**

<b>Main Ideas/Concepts and insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. A person’s self is the sum total of all that he/she is. The self includes, among other things, ideas attitudes, interests, skills abilities and values. Self is an expression of one’s inner “being.”</li> <li>2. Self awareness leads to a consciousness of intra and interpersonal relationships and its interaction with the environment.</li> <li>3. Self-knowledge (strengths and weaknesses, likes and dislikes etc.) facilitates decision-making about career/occupations to be pursued.</li> </ol>	<p>Self evaluation</p> <p>Decision-making</p> <p>Goal setting</p> <p>Communication</p>	<p>Willingness to look critically and honestly at self and make necessary adjustments.</p> <p>Self acceptance, Respect, Accepting others, Tolerance.</p>

**CAREER AWARENESS**

**Topic I : SELF Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Class discussion on acceptable behaviour</li> <li>2. Explore feelings and identify situations that can affect these feelings.</li> <li>3. Discussion of common weaknesses strengths.</li> <li>4. Building journal(s) of career opportunities in and around community.</li> <li>5. Goal-setting exercises</li> <li>6. Evaluation of work done in relation to goals etc.</li> </ol>	<p>Social Studies</p> <p>Religious Education</p> <p>Language Arts</p> <p>Resource &amp; Technology</p> <p>Science</p> <p>Mathematics</p> <p>Aesthetics</p>	<p>Students should begin to:</p> <ol style="list-style-type: none"> <li>1. have a better understanding of themselves.</li> <li>2. accept their strengths and limitations.</li> <li>3. develop positive feelings about themselves and others.</li> <li>4. develop desirable personal values.</li> <li>5. display socially accepted behaviours.</li> <li>6. realize that although people are different yet they have some characteristics that are similar.</li> <li>7. set realistic career goals.</li> <li>8. show more interest in work done around the school and community.</li> </ol>

**Topic II: SELF AND OTHERS**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. Healthy relationship enhance self development.</li> <li>2. There is need for interdependence</li> <li>3. Tolerance, understanding and honesty are necessary for good relationship.</li> <li>4. Showing respect for all including the elderly and the poor, is necessary.</li> <li>5. If a good relationship exists, every effort should be made to maintain it.</li> <li>6. Effort should be made to resolve conflicts amicably.</li> </ol>	<p>Self-motivation</p> <p>Decision-making</p> <p>Communication</p> <p>Making interpersonal value judgements</p> <p>Time management</p> <p>Interpersonal</p>	<p>Self acceptance (strengths and weaknesses)</p> <p>Willingness to accept and understand others</p> <p>Appreciation of family, church, society, culture</p> <p>Responsibility</p> <p>Pride in achievement</p>

**Topic II : SELF AND OTHERS Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Panel Discussion on interpersonal relationships</li> <li>2. Role Play relating to each other.</li> <li>3. Journal Entry</li> </ol>	<p>Social Studies</p> <p>Religious Education</p> <p>Language Arts</p> <p>Resource and Technology</p> <p>Science</p> <p>Aesthetic</p>	<p>Students should begin to:</p> <ol style="list-style-type: none"> <li>1. relate positively to others.</li> <li>2. accept the rights of others.</li> <li>3. understand how to work and act in a group.</li> <li>4. respect directives of people in authority</li> <li>5. show friendliness</li> <li>6. assume responsibilities for some activities in the family.</li> <li>7. initiate ways of helping others.</li> </ol>



**Topic III : SELF AND THE ENVIRONMENT**

<b>Main Ideas/Concepts and insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. Each person in the environment is important.</li> <li>2. It is important that each person identify his/her role and responsibility to maintain a healthy environment.</li> <li>3. The environment has an effect on what each one does.</li> <li>4. Each person is responsible for his/her health and well being.</li> </ol>	<p>Self assessment</p> <p>Researching</p> <p>Recording</p> <p>Values Identification</p> <p>Participation</p> <p>Co-operation</p> <p>Decision Making</p>	<p>Responsibility</p> <p>Dignity of labour</p> <p>Appreciation of different occupations</p> <p>Appreciation of society and community needs</p> <p>Concern for the physical environment</p> <p>Willingness to contribute to a healthy environment</p> <p>Respect for healthy living and maintaining a healthy lifestyle</p>

**Topic III : SELF AND THE ENVIRONMENT Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Use and care of things in the environment.</li> <li>2. Tours to places of interest in and around the community</li> <li>3. Constructing maps of places of interest-libraries, education centres, factories, churches.</li> </ol>	<p>Social Studies</p> <p>Language Arts</p> <p>Resource &amp; Technology</p> <p>Science</p> <p>Mathematics</p> <p>Religious Education</p> <p>Aesthetics</p>	<p>Students should begin to:</p> <ol style="list-style-type: none"> <li>1. practice caring for furniture, equipment and other things in the school and the home environment.</li> <li>2. show interest in neighbourhood activities with special interest in the core of the environment.</li> <li>3. show interest in kinds of jobs done in the community.</li> <li>4. understand some relationships between living location and career or job opportunities.</li> </ol>

**Topic IV : SELF AND CAREER CHOICE**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. The more education one has the greater the number of career choices.</li> <li>2. Our career choices are dependent on a number of things e.g. experiences, influence of parents/peers, the location of our home, family commitment.</li> <li>3. An awareness of self and adequate career information facilitates choice of career.</li> </ol>	<p>Self analysis</p> <p>Critical thinking</p> <p>Decision-making</p> <p>Establishing and maintaining relationships</p> <p>Research</p>	<p>Willingness to make meaningful choices</p> <p>Willingness to learn</p> <p>Receiving and sharing information.</p>

**Topic IV : SELF AND CAREER CHOICE Cont'd.**

<b>Suggested activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Develop career tree based on subjects.</li> <li>2. Talks on job opportunities by resource persons.</li> <li>3. Discussion on qualities of a good worker.</li> <li>4. Looking through “Help Wanted” sections of a newspaper and listing job opportunities in order of priority choice.</li> <li>5. Development of classroom directory of places, family and friends.</li> <li>6. Making a collage depicting careers of family members.</li> </ol>	<p>Resource and Technology</p> <p>Social Studies</p> <p>Science</p> <p>Language Arts</p> <p>Mathematics</p> <p>Aesthetics</p>	<p>Students should begin to:</p> <ol style="list-style-type: none"> <li>1. appreciate differences in career choices of family members and friends.</li> <li>7. talk about their own career choices.</li> <li>8. identify successful persons at work.</li> <li>9. take responsibility for work to be done at school or at home.</li> <li>10. be familiar with names of companies and the types of jobs they offer.</li> </ol>

**Topic 1: EXPLORING SELF**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. Self perception is the basis of self acceptance.</li> <li>2. Healthy self concept influences one’s life role.</li> <li>3. How one feels about self will influence one’s thinking and achievement.</li> <li>4. Career goals are usually based on self knowledge, personal values and critical environmental factors.</li> <li>5. Knowledge of self enhances planning for the future.</li> </ol>	<p>Self analysis</p> <p>Communication</p> <p>Decision-making (choices and consequences)</p> <p>Goal setting</p> <p>Research</p> <p>Information gathering.</p>	<p>Self worth</p> <p>Positive thinking</p> <p>Appreciation and respect for others</p> <p>Pride in achievement</p>

**EXPLORATION**

**Topic I : EXPLORING SELF Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Discussion based on self exploration</li> <li>2. Research</li> <li>3. Interviews and surveys</li> <li>4. Interest inventories</li> <li>5. Autobiography</li> <li>6. Portraits of .....</li> </ol>	<p>Social Studies</p> <p>Religious Education</p> <p>Resource &amp; Technology</p> <p>Aesthetics</p> <p>Language</p> <p>Mathematics</p>	<p>Students should:</p> <ol style="list-style-type: none"> <li>1. better understand themselves.</li> <li>2. be more disciplined and responsible.</li> <li>3. be knowledgeable about career interests and choices.</li> </ol>

**Topic II: EXPLORING RELATIONSHIPS**

<b>Main Ideas/Concept and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
1. Good interpersonal relationships are very important for success in any job or career.	Interpersonal Valuing Working well in groups	Appreciation of, respect for and acceptance of others Responsibility and dependability
2. For some people, getting along with others is a skill to be developed.	Communication Self analysis	Tolerance Understanding
3. Our actions have an effect on others.	Self evaluation in relationships with others.	
4. Some people make friends easily, are well respected and always display a caring courteous co-operative attitude when dealing with others.	Co-operating Discriminating Facilitating	
5. It is important to learn how to maintain relationships once they are developed.	Decision-making	
6. Maintaining a good relationship involves caring, understanding, loving, loyalty, forgiving, respecting.		

**Topic II : EXPLORING RELATIONSHIPS Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Brainstorming</li> <li>2. Role Play</li> <li>3. Discussion</li> <li>4. Structured group exercise</li> <li>5. Self portrait</li> <li>6. Team activity</li> <li>7. Interviews</li> </ol>	<p>Language Arts</p> <p>Social Studies</p> <p>Religious Education</p> <p>Mathematics</p> <p>General Science</p> <p>Resource &amp; Technology</p> <p>Aesthetics</p>	<p>Students should:</p> <ol style="list-style-type: none"> <li>1. be more self aware and tolerant</li> <li>2. demonstrate improved work attitudes.</li> <li>3. demonstrate an understanding of group dynamics.</li> <li>4. be able to initiate and maintain good relationships.</li> </ol>



**TOPIC III: OCCUPATIONAL EXPLORATION**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. People are engaged in different jobs or occupations which are accorded varying status levels but all of which are important.</li> <li>2. Jobs in the same occupation are likely to attract persons of similar personality types. (See Self Directed Search SDS)</li> <li>3. Different jobs require varying levels of skills and education.</li> <li>4. The development of one's country is largely dependent on the way individuals perform their jobs.</li> </ol>	<p>Study Skills:</p> <ul style="list-style-type: none"> <li>Information gathering</li> <li>Collation storage and retrieval of information</li> <li>Communication</li> <li>Critical analysis</li> <li>Computer knowledge</li> <li>Valuing</li> </ul>	<ul style="list-style-type: none"> <li>Patience</li> <li>Perseverance</li> <li>Respect for all types of jobs</li> <li>Appreciation of societal and labour market needs</li> <li>Appreciation of people, community contributions, civic responsibilities.</li> <li>Responsibilities for own actions.</li> </ul>

**Topic III : OCCUPATIONAL EXPLORATION Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Research</li> <li>2. Interviews</li> <li>3. Projects</li> <li>4. Use of modified (Jamaicanized) BICEP materials Grade 8 e.g. Impulsive Actions, Box-A. Job</li> <li>5. Educational Tours</li> <li>6. Resource persons to add</li> <li>7. res specific topics.</li> </ol>	<p>Social Studies</p> <p>Language Arts</p> <p>Resource &amp; Technology</p> <p>Mathematics</p> <p>General Science</p> <p>Aesthetics</p>	<p>Students should be:</p> <ol style="list-style-type: none"> <li>1. more aware of their responsibilities in national development.</li> <li>2. more willing to accord status to various types of jobs.</li> <li>3. better able to identify careers and show that they are developing decision-making skills.</li> <li>4. more aware of the importance of job performance for national development.</li> <li>5. better able to make tentative career plans.</li> </ol>

**Topic 1V: EXPLORING COMPETENCIES**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. Training is likely to improve efficiency</li> <li>2. Practice improves job performance.</li> <li>3. Ability to apply effective decision-making skills determines performance level</li> <li>1. Promotion on the job depends on performance.</li> </ol>	<p>Study skills</p> <p>Decision-making</p> <p>Research</p> <p>Interpersonal behaviour</p> <p>Following instructions</p>	<p>Self confidence and self-reliance</p> <p>Willingness to follow directions</p> <p>Interdependent thinking</p>

**IV : EXPLORING COMPETENCIES Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<p>1. Dramatization</p> <p>2. Observation/work shadowing</p> <p>3. Selecting activities from the modified BICEP materials Grade 8</p> <p>Drama Kids &amp; Bosses Bicep 9.8 p. 79</p>	<p>Resource &amp; Technology</p> <p>Social Studies</p> <p>Language Arts</p> <p>Religious Education</p> <p>Mathematics</p> <p>Aesthetics</p>	<p>Students should demonstrate:</p> <ol style="list-style-type: none"> <li>1. more willingness to study</li> <li>2. greater efficiency in completing assignment .</li> <li>3. more awareness of the relationship between job performance and promotion.</li> </ol>

**Topic V : ECONOMIC EXPLORATION**

<b>Main Ideas/Concepts</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. Occupation and Lifestyles are interrelated.</li> <li>2. Work location and work Choice affect lifestyles.</li> <li>3. A highly paid job does not necessarily guarantee job satisfaction.</li> <li>4. There are many social and economic benefits associated with various occupations.</li> <li>5. Proper budgeting is one of the essentials for economic security.</li> </ol>	<p>Decision-making</p> <p>Job analysis &amp; selection</p> <p>Identification and use of talents, abilities, interests</p> <p>Research</p> <p>Discrimination</p> <p>Budgeting</p>	<p>Willingness to volunteer to do work.</p> <p>Risk taking desire for economic security.</p>

**Topic V : ECONOMIC EXPLORATION Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<p>See Modified BICEP Activities, Grade 8.</p> <p>Educational Tours</p> <p>Career Activity</p> <p>Resource Persons</p>	<p>Social Studies</p> <p>Research &amp; Technology</p> <p>Language</p> <p>General Science</p> <p>Mathematics</p> <p>Aesthetics</p>	<p>Students should demonstrate:</p> <ol style="list-style-type: none"> <li>1. understanding of relationship between personal economic life-style and occupational roles.</li> <li>2. increased ability to apply budgetary skills.</li> <li>3. an awareness of the factors that contribute to job satisfaction.</li> </ol>

**Topic VI : EXPLORING VAUES AND ATTITUDES**

<b>Main Ideas/Concepts</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. Values are important to one's personal life and the statements one makes</li> <li>2. Decisions are a reflection of individual values.</li> <li>3. Personal values influence career choices.</li> </ol>	<p>Analysis</p> <p>Evaluating</p> <p>Negotiating</p> <p>Comprising</p>	<p>Readiness to display acceptance of people and their rights.</p> <p>Development of personal value systems.</p>

**Topic VI : EXPLORING VALUES AND ATTITUDES Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Values clarification exercise</li> <li>2. Value ranking</li> <li>3. Modified BICEP activities e.g. 9.8 p 28 Values Decisions, Seeing Success Through My Eyes</li> <li>4. Panel Discussion</li> </ol>	<p>Resource &amp; Technology</p> <p>Language Arts</p> <p>Science</p> <p>Social Studies</p> <p>Mathematics</p> <p>Aesthetics</p>	<p>Students should be:</p> <ol style="list-style-type: none"> <li>1. more aware of the way personal values influence decisions taken.</li> <li>2. more industrious, and responsible.</li> <li>3. display good deportment.</li> </ol>



**Topic VII: SELF AND LEISURE**

<b>Main Ideas/Concept and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. Leisure is an important part of life</li> <li>2. Many factors influence our leisure choices.</li> <li>3. Choice of leisure activities is related to our values.</li> <li>4. Leisure is a means for self exploration and career decisions making.</li> <li>5. Leisure interests sometimes follow a specific pattern and are developed over time.</li> </ol>	<p>Competence</p> <p>Appreciation</p> <p>Investigation</p> <p>Dexterity</p> <p>Choice and decision making</p> <p>Self evaluation</p> <p>Creative use of leisure</p>	<p>Perseverance</p> <p>Patience</p> <p>Sense of pride in achievement</p> <p>Productive use of time</p>

**Topic VII : SELF AND LEISURE Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Class project</li> <li>2. Club activity</li> <li>3. Research</li> <li>4. Leisure time inventory</li> <li>5. Selections from Jamaicanized BICEP activities.</li> <li>6. Journal entry</li> <li>7. Create and develop leisure activities.</li> </ol>	<p>Resource &amp; Technology</p> <p>Language Arts</p> <p>Social Studies</p> <p>Science</p> <p>Mathematics</p> <p>Religious Educational</p> <p>Aesthetics</p>	<p>Students who are:</p> <ol style="list-style-type: none"> <li>1. more skilled and versatile</li> <li>2. beginning to spend leisure constructively</li> <li>3. more involved in self-help programmes.</li> <li>4. more focused creative and self directed.</li> </ol>

**Topic 1: SELF IN RELATION TO WORK**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. An individual can make a contribution to his/her home and country by participating in meaningful work activities and by developing a productive work environment.</li> <li>2. One's individual ability to contribute to the development of home and country is determined by a variety of factors.</li> <li>3. More self knowledge improves the chances of finding constructive work to do.</li> <li>4. Health, education, training and experience are vital for work roles.</li> <li>5. Reward for work is not always immediate.</li> </ol>	<p>Personal assessment e.g. of one's status</p> <p>Ability to find help to improve status</p> <p>Goal setting</p> <p>Ability to put others at their ease.</p> <p>Cooperation</p> <p>Communication</p>	<p>Being understanding, facilitative and accommodative.</p> <p>Appreciative of own strengths and weaknesses.</p> <p>Interested in maintaining mutually beneficial relationship.</p> <p>Appreciation of civic responsibility.</p>

**PREPARATION**

**Topic I : SELF IN RELATION TO WORK Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Projects</li> <li>2. Termly Journal(s)</li> <li>3. Study of models</li> <li>4. Establishment and monitoring of programme.</li> <li>5. Making personal life charts.</li> </ol>	<p>Language Arts</p> <p>Resource &amp; Technology</p> <p>Mathematics</p> <p>Aesthetics</p> <p>General Science</p> <p>Social Studies</p>	<p>Students should begin to:</p> <ol style="list-style-type: none"> <li>1. demonstrate better decision-making skills re work and career choice.</li> <li>2. display attitudes of participation, cooperation and collaboration in group activities.</li> <li>3. demonstrate a more responsible attitude towards work.</li> </ol>

**Topic II : SELF IN RELATION TO OTHERS**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. Each person must recognize his/her rights and responsibilities and respect other people's rights and responsibilities.</li> <li>2. All people's contribution to national development must be respected.</li> <li>3. It is a personal responsibility to collaborate with others at home and at the workplace.</li> <li>4. Each worker must be willing to work towards consensus on issues.</li> <li>5. Much of the work people do is dependent on the work of others to make it effective. Therefore a good working relationship amongst co-workers is always important.</li> <li>6. Communication is a vital part of relationship.</li> <li>7. Physical appearance sometimes affects interpersonal relationships.</li> </ol>	<p>Co-operation</p> <p>Problem-solving</p> <p>Communication</p>	<p>Acting responsibly towards self and others.</p> <p>Showing tolerance and respect for others.</p> <p>Recognizing the importance of workers at different levels</p> <p>Recognizing the importance of good grooming and deportment.</p>

**Topic II : SELF IN RELATION TO WORK Cont'd.**

Suggested Activities	Areas of Integration	Expected Outcomes
<ol style="list-style-type: none"> <li>1. Participate in tasks at school and home.</li> <li>2. Discuss workers' rights; invite speakers from businesses, industries and/or trade unions to participate in discussions.</li> <li>3. Identify responsibilities of a worker and list them in journal(s)</li> <li>4. Discuss ways of promoting healthy interpersonal relationships.</li> <li>5. Discuss values and how they influence actions.</li> </ol>	<p>Social Studies</p> <p>Language Arts</p> <p>Resource &amp; Technology</p> <p>Mathematics</p> <p>General Science</p> <p>Aesthetics</p>	<p>Students should demonstrate:</p> <ol style="list-style-type: none"> <li>1. more active participation and involvement in school life.</li> <li>2. greater sense of and responsiveness to personal values.</li> <li>3. more amicable relationships amongst one another.</li> <li>4. a more mature approach to team work.</li> </ol>

**Topic 111 : EDUCATION AWARENESS**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. One should take advantage of all educational opportunities for continued self improvement.</li> <li>2. The changing nature of work demands that the worker should have employable skills.</li> <li>3. There are many learning options e.g.               <ul style="list-style-type: none"> <li>▪ on the job training</li> <li>▪ part time/full time studies.</li> </ul> </li> <li>4. The more informed the individual the better he or she is able to make realistic decisions, and job opportunities.</li> <li>5. Knowledge of the skills needed for the job, the educational qualification required and the role one is expected to perform will assist greatly in helping the individual make the right selection in the world of work.</li> </ol>	<p>Study skills including:</p> <p>Communication</p> <p>Ability to access information independently</p> <p>Problem-solving</p> <p>Access information from database and the internet</p> <p>Decision-making</p> <p>Self directed research</p>	<p>Self-motivation</p> <p>Tolerance</p> <p>Independence</p> <p>Determination to succeed</p> <p>Pride in achievement</p> <p>Appreciation of education/training</p>

**Topic III : EDUCATION AWARENESS - Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Using references e.g. Employment and Training Booklet.</li> <li>2. Development of personal career pathways and career ladders.</li> <li>3. Involvement in;               <ul style="list-style-type: none"> <li>- Projects</li> <li>- Scrap Books making</li> <li>- Field trips</li> <li>- Work experience in industries</li> <li>- Entries in Career Journal(s)</li> <li>- Case Studies</li> <li>- Surfing by the internet.</li> </ul> </li> </ol>	<p>Social Studies</p> <p>Language Arts</p> <p>Resource &amp; Technology</p> <p>Science</p> <p>Mathematics</p> <p>Aesthetics</p>	<p>Students should be:</p> <ol style="list-style-type: none"> <li>1. more knowledgeable about the world of work.</li> <li>2. more capable of serious consideration of their career options.</li> <li>3. more motivated to achieve academic excellence as they understand the relationship between education level and career/job opportunities.</li> <li>4. able to take responsibility for actions.</li> </ol>



**Topic 1V: CAREER EXPLORATION**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<p>1. Occupations require varying levels of specialized competencies.</p> <p>2. The job seeker should be aware of where to search for jobs.</p> <p>3. Meaningful career search requires knowledge and use of various sources and techniques.</p> <p>4. Job search sources are many and varied e.g.</p> <ul style="list-style-type: none"> <li>- newspaper advertisement</li> <li>- visiting private and government agencies.</li> <li>- school placement/bulletin board</li> <li>- network &amp; surfing through the network</li> <li>- self employment.</li> </ul>	<p>Research</p> <p>Communication</p> <p>Documentation</p> <p>Reporting</p> <p>Forecasting</p> <p>Networking</p> <p>Computer literacy</p> <p>Entrepreneurial skills</p>	<p>Patience</p> <p>Flexibility</p> <p>Alertness re job opportunities</p> <p>Desire to be gainfully employed</p> <p>Self directness</p> <p>Willingness to achieve</p>

**Topic IV: CAREER EXPLORATION Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Compilation of career clusters</li> <li>2. Using selections from Modified BICEP Activities, Grade 9 e.g. <i>“From School to work – The Natural Link”</i>.</li> <li>3. Development of student Portfolio.</li> <li>4. Research via the internet and other sources.</li> <li>5. Work observation and simulation.</li> <li>6. Income generating projects.</li> </ol>	<p>Research &amp; Technology</p> <p>Science</p> <p>Language Arts</p> <p>Social Studies</p> <p>Mathematics</p> <p>Aesthetics</p>	<p>Student should be:</p> <ol style="list-style-type: none"> <li>1. able to identify career opportunities.</li> <li>2. more competent at setting and working towards career goals..</li> <li>3. more aware of self-employment opportunities.</li> <li>4. able to identify job opportunities to their level of competency.</li> </ol>

**Topic V : CAREER PREPARATION**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<ol style="list-style-type: none"> <li>1. The new entrant to the world of work needs to possess appropriate skills e.g. job skills.</li> <li>2. Special skills are required for specific jobs. However, there are various types of basic skills which the new entrant must possess.</li> <li>3. Prior knowledge of what is expected at the work place is important.</li> <li>4. Knowledge in formulating and completing job-related skills.</li> </ol>	<p>Ability to identify different categories of job skills.</p> <p>Effective written communication including penmanship</p> <p>Interview skills</p> <p>Selecting appropriate attire for job interviews.</p> <p>Giving and/or eliciting information</p> <p>Adaptability</p>	<p>Self-confidence</p> <p>Appreciation of good deportment</p> <p>Willingness to improve on areas of skills where there is deficiency</p> <p>Adaptability</p>

**Topic V : CAREER PREPARATION Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Resume writing</li> <li>2. Job application letters</li> <li>3. Selections from Modified BICEP Activities, Grade 9</li> <li>4. Completing application and other job-related forms.</li> <li>5. Develop glossary terms related to job application forms e.g. glossary</li> <li>6. Community work</li> </ol>	<p>Resource &amp; Technology</p> <p>Language Arts</p> <p>Social Studies</p> <p>Science</p> <p>Mathematics</p> <p>Aesthetics</p>	<p>Students should :</p> <ol style="list-style-type: none"> <li>1. better able to relate what they are being taught and the approaches used to the world of work.</li> <li>2. possess more realistic knowledge of the workplace.</li> <li>3. become more knowledgeable of job hunting skills.</li> <li>4. have a more positive outlook on life.</li> </ol>

**Topic V1 : ENTRY INTO THE WORLD OF WORK**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<p>1. Individuals need to learn to accept responsibility for finding employment and being knowledgeable of the commitment, financial independence and self-reliance that go with the job.</p> <p>2. Adaptability skills for keeping a job, adaptable skills are important for keeping job.</p> <p>3. Social and economic factors have implications for lifestyle.</p> <p>4. One should be able to evaluate opportunities for personal growth and development in any job situation.</p> <p>5. Each person has potential for contributing to the world of work.</p>	<p>Understand instructions and following directions</p> <p>Communication</p> <p>Research</p> <p>Basic job-related</p> <p>Beginning competencies</p> <p>Adaptive skills</p>	<p>Responsible work attitude</p> <p>Self-control and self confidence</p> <p>High motivation</p> <p>Interest in organizations</p> <p>Respect for authority</p> <p>Striving for excellence</p> <p>Adaptability</p> <p>Appreciation of labour trends</p>

**Topic VI : ENTRY INTO THE WORLD OF WORK Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Class projects e.g. Junior Achievement</li> <li>2. Entries into personal journal(s)/portfolio</li> <li>3. Short term work experience</li> <li>4. Community activities</li> </ol>	<p>Resource &amp; Technology</p> <p>Mathematics</p> <p>Language Arts</p> <p>Social Studies</p> <p>General Science</p> <p>Aesthetics</p>	<p>Students should:</p> <ol style="list-style-type: none"> <li>1. be more self-controlled and self-confident</li> <li>2. be more involved in planning and implementing school activities/projects.</li> <li>3. have developed some marketable skills/basic competencies.</li> <li>4. be involved in community activities on a voluntary basis</li> <li>5. be able to identify and develop areas of job opportunities from voluntary community activities.</li> </ol>

**Topic VII : SELF EMPLOYMENT**

<b>Main Ideas/Concepts and Insights</b>	<b>Skills</b>	<b>Attitudes</b>
<p>1. In order to start self employment a working knowledge of the economic environment is necessary.</p> <p>2. Self employment can start on a small scale and with a simple line such as vending and leisure time activities.</p> <p>3. Ingredients for success include:</p> <ul style="list-style-type: none"> <li>- careful planning</li> <li>- good customer relationships</li> <li>- adequate time devoted to the enterprise</li> <li>- the money and other resources needed for beginning the operation</li> </ul>	<p>Communication interpersonal skills</p> <p>Ability to access information from a variety of sources</p> <p>Management, decision-making and problem-solving</p> <p>Record keeping</p> <p>Investigative</p> <p>Numeracy</p> <p>Evaluative</p>	<p>Recognition of the dignity of labour</p> <p>Cooperation</p> <p>Sense of responsibility</p> <p>Respect for all</p> <p>Reliability</p> <p>Dependability</p> <p>Willingness to work on own initiative</p> <p>Pride in achievement</p>

**Topic VII : SELF EMPLOYMENT Cont'd.**

<b>Suggested Activities</b>	<b>Areas of Integration</b>	<b>Expected Outcomes</b>
<ol style="list-style-type: none"> <li>1. Involvement in:                             <ol style="list-style-type: none"> <li>a) Junior Achievement programme</li> <li>b) Mini projects</li> </ol> </li> <li>2. Making visits to work Sites.</li> <li>3. Using resource speakers</li> <li>4. Organizing feasibility studies</li> <li>5. Identifying resources to be used in income generating projects.</li> </ol>	<p>Resource &amp; Technology</p> <p>Language Arts</p> <p>Social Studies</p> <p>Religious Education</p> <p>Mathematics</p> <p>Aesthetics</p> <p>General Science</p>	<p>Students should show:</p> <ol style="list-style-type: none"> <li>1. involvement in entrepreneurial projects.</li> <li>2. more business-like attitudes.</li> <li>3. increased consciousness of the value of time and money.</li> <li>4. a greater degree of self and social fulfillment.</li> </ol>



**GOVERNMENT OF JAMAICA/ WORLD BANK  
REFORM OF SECONDARY EDUCATION  
(R.O.S.E)**

# ***CURRICULUM GUIDE***

## ***LANGUAGE ARTS***

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Kingston, Jamaica  
December, 1998

# ACKNOWLEDGEMENTS

We would like to acknowledge the contributions made by the following people in the initiation, planning and preparation of this document:

- Ms. Lola Williams, ACEO Core Curriculum Unit who has facilitated the whole curriculum development process and under whose direction the implementation will be carried out.
- Ms. Audrey Aarons, International Consultant (Curriculum) who guided the consultants and Education Officers through the initial stages of the curriculum development process.
- Mrs. Janet Johnson, Educator World Bank IV Project.
- Dr. Sam Myers, Dr. Velma Pollard and Dr. Mertel Thompson of the U.W.I. whose diagnostic testing of grade 7 students yielded some of the information which informed the development of the Language Arts curriculum.
- Teachers in the pilot schools in St. Thomas, who, by their involvement in workshops and discussion in the schools, have helped in the shaping of the Curriculum and in the selection of methodologies and activities to aid its implementation.
- Ministry of Education Officers in the Core Curriculum Unit, the Technical/Vocational Unit and the Evaluation and Guidance Units whose ideas have played a part in shaping the Curriculum and its evaluation.
- The Administrative Staff of the World Bank IV Project, the Core Curriculum Unit and EDC local office who have assisted members of the language Arts Team in the preparation of materials.
- Local Consultants  
Mrs. Peal Williamson, Senior Education Officer for Language Arts\*  
Mrs. Pamela Kelly, Target English Associates, who also led the writing team that developed the instructional materials from which some of the unit plans, modules and lesson plans were selected.
- Reviewers  
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## **Curriculum Guide – Language Arts**

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## LANGUAGE ACROSS THE CURRICULUM

Language is central to the whole curriculum process. Oral and written language are both essential to the thinking process which must take place in all areas of the curriculum.

John Carrol, (1974) states that:

*“the various forms of pictorial expressions are almost always accompanied by language and require language to make them intelligible”.*

Piaget, (1971) has written that:

*“language is but one among ... the many aspects of the semiotic functions even though it is, in most instances, the most important one”.*

According to Fillion (1991)

*“language across the curriculum stresses concern for how people learn to use language, how they use language to achieve understanding and appreciation of their experiences (including the curriculum content introduced in schools) and how language use influences cognitive development”.*

Broadening the concept somewhat, the writer argues that

*“language across the curriculum is primarily concerned with pupils’ ability to use reading, writing and talk for an increasing range of personal, social and educational purposes”.*

Even highly abstract processes in Mathematics and psychomotor activities use the medium not only in describing the techniques and processes but also in evoking responses.

The student who is articulate in oral and written language, who can use words to manipulate ideas, to shape thoughts and to understand key concepts, has an indispensable tool for all school learning because the ability to communicate through language is a necessary skill in all subject areas.

But what do we mean by language across the curriculum? It certainly does not mean that each subject teacher must take responsibility for teaching sentence structure, grammar and composition skills in the subject areas. Rather, language across the curriculum is “verbalization as the fulfilment of understanding within each subject area”. (Thaiss, 1984). This involves such factors as:

**students (in all subject areas)**

- using writing to order and classify thoughts
- learning the language appropriate to the subject
- using the increasing precision the vocabulary of their subject;

**teachers (in all subject areas)**

- modelling the language of their subject
- attending to the conventions of written language
- becoming sensitive to the role and varieties of language learning

The following learning skills which are traditionally regarded as the purview of the language teacher are shared by all subjects in the curriculum.

- |    |                                                        |   |                                                                                                            |
|----|--------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------|
| 1. | Locating information                                   | - | using encyclopedias and reference books and gathering facts from field trips and interviews.               |
| 2. | Organizing information                                 | - | outlining and categorizing                                                                                 |
| 3. | Acquiring information through reading                  | - | using strategies such as skimming and scanning and understanding the importance of pre-reading strategies. |
| 4. | Acquiring information through listening and observing  | - | setting purpose for listening and observing                                                                |
| 5. | Communicating orally and in writing                    | - | speaking with accuracy and pose, writing with clarity and exactness, using the writing process             |
| 6. | Interpreting pictures, charts, graphs, tables cartoons | - | constructing simple graphs, tables and other pictorial material including cartoons.                        |
| 7. | Evaluating and applying information                    | - | applying problem-solving and critical thinking skills                                                      |

Each subject area has its special needs although there are many held in common across the curriculum. The subject teacher needs to be aware of this and should provide learning situations which will foster the development and use of appropriate language.

## **PHILOSOPHY OF THE LANGUAGE ARTS GRADES 7-9**

The students in grades 7-9 are young adolescents with their own unique language needs. They are at a critical stage in their lives when they are reflecting on career choices, their growing sexuality and relationships with the opposite sex, on their own identity and their future place in society. They are searching for the meaning of life and are exploring in order to make the right choices for the middle adolescent years. They need to articulate their confusions and find answers to all the “whys” that are at the back of their minds and which might be causing them to tune out the teacher.

They need language, therefore, to cover all ranges of human activities and interaction

- to express feelings and opinions
- to think and talk about issues that affect their daily lives
- to learn
- to talk to their friends and family and their teachers and the wider society
- to read their text books
- to gossip about others
- to air their grouses
- to tell jokes and stories
- to show emotion
- to tease and make fun of each other
- to ask questions
- to analyze issues and situations
- to solve problems and more
- to respond aesthetically

Language is an integral part of their daily lives in and out of school. The Language programme must develop their skills and provide them with the strategies that will help them to become competent users of the Language.

### **Language Across the Curriculum**

Whether children are learning geography or science, they need the resources of language to help them to cope with the demands of the curriculum. Reading, writing, listening and speaking are indispensable tools for the learning process as the students move across the curriculum. Each year the poor performance of students in various examinations reminds us of the importance of Language in all areas of the curriculum. In the National Assessment Programme, the results point to many weaknesses in the areas of Language Arts. In the area of Reading, the results show that at Grade 6 only 50-55% of the children are performing at the Grade 4 level of comprehension. By far the weakest area is in writing skills. The great majority of the children are under-achieving in this vital area. In addition, problems that have been noted in the area of spelling point to the fact that

children need to read more and to be taught strategies for spelling words in common usage and words they meet in their reading.

In the content areas – Mathematics, Science and Social Studies – a review of the results referred to above, concludes that language has affected significantly the performance of the children as, in general, they are hampered by poor writing skills.

### **The Jamaican Language Situation**

Our language situation makes its own unique demands on our language programme. Most children entering school can be seen as partially bilingual. They are usually fluent Creole speakers moving towards Standard English as the target language. The situation was recognized in the primary curriculum, where teachers were encouraged to accept the child's home language and help them to move gradually towards Standard English. In grades 7-9 there has to be some continuity in approach if we are to continue to build the students' self concept while facilitating the learning process. We should recognize that

1. for some students conceptualisation, thinking and talking may be best done in Jamaican Creole. The resources of both languages must therefore, be utilized in the leaning process.
2. the emphasis is on communication; students must become aware of the importance of audience in determining their choice of language, vocabulary and register.

Some students have attained some measure of academic proficiency in Standard English which enabled them to pass the Common Entrance Examinations (CEE) but the majority are underachieving in the skills required for reading and writing and learning as they move across the curriculum. Teachers of grades 7-9 complain that most students lack the basic composing skills and the ability to read fiction and non-fiction materials at varying levels.

The opportunities provided in the language classes are just not enough to develop proficiency in all the skills of Standard English which students need for academic growth in the content areas. They need all the possible support they can get from the content areas to practise the skills of Standard English, to develop the vocabulary required for academic work, to provide background information that will fire their imagination and creativity, and provide content for their speaking, reading and writing tasks. They need opportunities to work together and explore ideas, opportunities to receive and process language, to develop critical thinking skills through listening, reading and writing and to apply them in meaningful and realistic contexts in and out of the classroom. These are only possible when there is integration of the Language Arts with all areas of the curriculum.

Children entering grades 7-9 are at varying stages of language development. This multilevel situation presents a challenge to the teacher, the school and the whole system. We are challenged to help all students to develop their language skills at a rate



commensurate with their level of entry. The implications for methodology are obvious and the teacher is being challenged to redefine his/her role as teacher not only in terms of teaching but being a facilitator/manager of learning.

### **Language as Process**

Language learning is a process that is inseparable from the process of thinking itself. It is concerned with processes that are vital to all areas of the curriculum – learning and thinking processes such as planning, designing, experimenting, communicating, hypothesizing, writing, synthesizing, conceptualizing and reconstructing. These are all learned by the students as they go through the process of interacting with materials, with other persons, with data and so on. Language learning is also interactive in the sense that the learner is processing information at several levels simultaneously. In thinking, the learner moves back and forth between recall, analysis, synthesis and evaluation. In writing, the learner does not always follow the stages of pre-writing, writing and post-writing, as we sometimes neatly segment the writing process. Traditionally we have taught sentences and paragraphs before composing, but for many children this linear process does not exist, as some learn more efficiently when they can express all their ideas in one flow and then reorganise it into paragraphs and sentences. Reading is now clearly established as a process of meaning-making, as the learner interacts with texts.

The fact that language learning is an interactive, non-linear process, has implications for the sequencing of material, methodologies and approaches for teaching Language.

### **The Place of Grammar**

Our main aim in the Language Programme is to enable students to acquire communicative competence in Standard English so that they will:

- read with comprehension appropriate to their stage of development
- listen with understanding to statements and ideas expressed by others
- express their ideas orally with clarity and confidence
- write competently, using appropriate forms of the language

Students are motivated to learn language when they appreciate these goals as worthwhile and necessary for their own success in school and later. If they perceive that a knowledge of grammar can help them to achieve these goals more efficiently they will be more motivated to learn and apply its rules. They need to understand that grammar is merely a system of rules about language and to be aware that all languages have rules, including our own Creole.

Grammar is basically learnt in two ways:

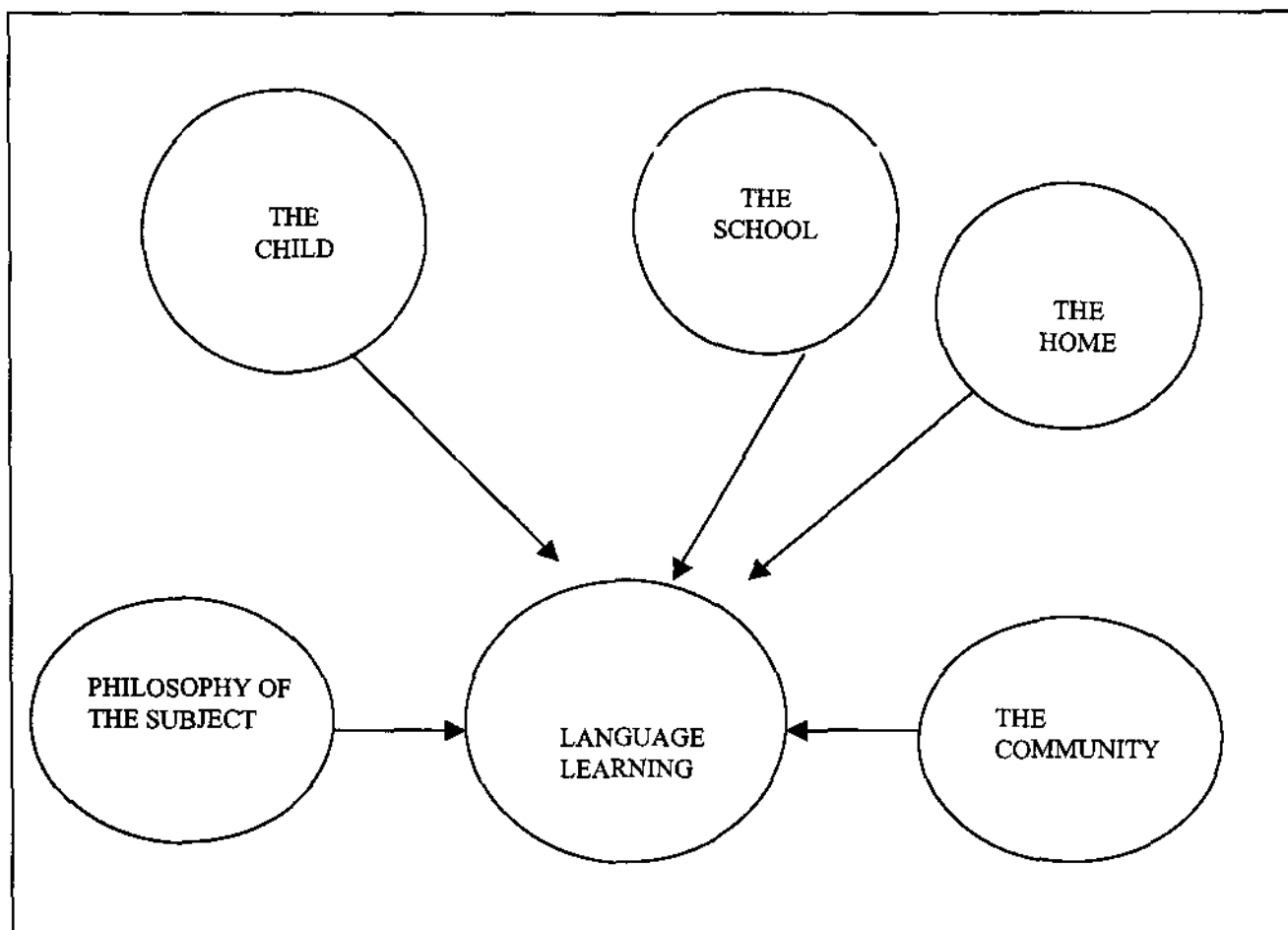
- experimentally, that is in the context of realistic communicative situations and

- cognitively, that is: learnt formally as skills and knowledge through deliberate teaching.

It is best learnt experimentally, but that is not easy in our context, where our children are not exposed to enough actual real-life situations for the practice of Standard English. Some can be created through role-plays, field trips, the subject areas, through literature, and listening to competent speakers of the language. These provide a more communicative approach particularly in the earlier stages where students are not ready for a detailed analysis of the language.

In the absence of adequate real-life experiences for practice of the Standard Language, we have to aim for a balance between the two approaches. But they must learn grammatically correct English if they are to internalize the rules and apply them automatically in language situations.

### Some Factors Influencing Language Learning



## **The Child**

- background of skills, competencies, experiences, abilities / disabilities
- learning skills
- motivation to achieve

Children enter grade 7 with varying levels of skills and competencies in language. This is usually a result of their own varied backgrounds, home environment, their previous learning experiences in primary school and their own abilities and interests. Many might be fluent conversationalists, but lack the skills necessary for academic work. Some may even have specific learning disabilities that have not been identified. Some have lost their self-confidence through previous failures and some may have lost their interest in learning language because of teaching methodologies that were not child-centred and activities that seemed to have no relevance to their lives.

But despite these apparent deficiencies, they have many strengths, for example, their rich cultural tradition, that make them receptive to language learning. Their previous cultural experiences at home and in the wider community should form the starting point for any effective language programme. Above all, any linguistic deficiency in Standard English should not be seen as a sign of intellectual deficiency. Instead we need to explore ways in which they learn language best (See Basic Principles of Language Learning – p. 31).

## **The School**

Provision of:

- materials and resources
- language policy
- monitoring procedures
- a language programme adapted to the needs of the school.

The school creates the environment for language learning, not only by providing the materials and resources that teachers and students need, but by establishing a philosophy of language which guides teachers in their practice.

Administrators working together with teachers create a milieu in which language is seen as the key to most of the operations within the school. It is the school that establishes the policy of infusing language skills into all subjects in the curriculum and establishes procedures for monitoring student progress, starting with basic literacy.

## **The Community**

- Parental involvement in school
- Provision of resources
- A language environment

Parents and the community are resources that are indispensable to children's progress in language. Schools draw on these resources to establish relevance in the curriculum, thereby making learning more realistic and meaningful to the students. A variety of activities ranging from parent talks to newspaper-in-education are just some ways in which children can see the inter-relatedness of language and the community. A community that is conscious of language and its role in development and which uses language to solve problems is helping to create an environment that is supportive of language learning.

### **Philosophy of the Subject Matter**

Perceptions of:

- Language as a tool for communication and learning vs language as a set of rules
- Language as a whole vs Language as the sum of its parts.

Perceptions of what language is, its roles and functions, influence the teaching/learning process. If we see language merely as a set of rules, it is likely that our methodology will reflect this. If we see it mainly as a tool for thinking, learning and socializing, then our approaches will reflect this. If we observe that, in real-life situations, speaking, listening, thinking and sentence construction are integrated activities and that though we may be able to read without being able to write, it is almost impossible to write without being able to read, then it is not difficult to accept the concept of integration.

We need to present language as a whole, not just the sum of its parts.

## **LIST OF LANGUAGE OBJECTIVES FOR GRADES 7-9**

The objectives listed here are categorized under various sub-heads to ensure coverage of a range of Language Skills. There are some general objectives that incorporate several skills, and specific objectives, some of which are discrete enough to require specific focus. They span the linguistic, the cognitive and affective areas. If it is not intended that they should be taught in discrete compartments but every attempt should be made to integrate the skills as much as possible for more effective learning.

### **General Objectives**

1. To develop competence through acquisition of literacy skills
2. To be sensitive to the value of language as a tool for expression, communication, learning and thinking
3. To be sensitive to audience, context and purpose for speaking, reading, writing and listening
4. To recognize the need to access and organize information from a variety of sources
5. To acquire and use SJE structures correctly in speech and writing
6. To demonstrate sensitivity to language differences in the class and the wider society
7. To bring to their writing of different types of texts some understanding of the structure and function of each.
8. To increase their active and passive vocabulary
9. To become conscious of the language styles of various disciplines and to function within them
10. To employ a wide range of language use – from personal to technical in the content area
11. To appreciate and use stylistic devices such as : irony, mood, simile, metaphor, symbols
12. Through reading to respond with awareness to different types of literature

## **Specific Objectives**

### **Listening**

1. To listen sensitively and critically to the ideas of others
2. To listen for comprehension and appreciation at varying levels through:
  - recall of facts
  - interpretation
  - application
  - analysis
  - evaluation
3. To listen with an increasing span of concentration to others, and comment on what has been said
4. To listen and respond to materials read aloud, expressing opinion on what has been heard
5. To listen for specific language purposes in order to improve competence in the Standard Language
6. To know and practise strategies for good listening
7. To recognize obstacles to good listening
8. To demonstrate a grasp of sequence, cause and effect, reasoning, clarity of argument, appreciation of relevance and irrelevance
9. To develop the habit of listening in order to improve communication and human relationships
10. To develop sensitivity to the dangers of poor listening habits

### **Speaking**

1. To use language appropriate to situations
2. To develop conversational skills
3. To narrate events in sequence
4. To speak clearly and concisely with awareness of audience
5. To give and to request information
6. To give and receive instructions and carry them out accurately
7. To use language to entertain
8. To express their own and others' ideas, attitudes and feelings with confidence and skill
9. To articulate their own needs and concerns
10. To use language to explore ideas and build concepts
11. To use language to persuade others
12. To use language to negotiate meaning with others
13. To use language to build sound interpersonal relationships
14. To reflect on and evaluate their use of spoken language and to reformulate ideas to help the listener
15. To be aware that language can both create and minimize conflict

16. To understand the effect of body language on oral conversation

### **Reading**

1. To develop literacy skills through intensive oral reading
2. To acquire and use the following reading skills as necessary
  - identification of sound – symbol relationships
  - word recognition
  - word meaning
  - recall comprehension
  - synthesizing
  - analyzing
3. To develop vocabulary skills
4. To understand and use common idiomatic expressions
5. To demonstrate increasing use of inference – draw conclusions, make predictions, identify cause/effect relationships
6. To read a range of material with increasing independence demonstrating fluency, accuracy and understanding
7. To distinguish between fact and opinion
8. To vary reading technique and rate for purpose and content
9. To demonstrate awareness of pre-reading, reading and post-reading strategies as aids to improving reading competence and comprehension
10. To interpret pictorial materials : graphs, charts, tables, etc., from materials at grade level
11. To distinguish between fiction and non-fiction
12. To distinguish among various forms of literature
13. To read literature for enjoyment and with appreciation for the inter-relatedness of the elements of plot, character setting, theme and style
14. To show signs of developing interest in reading for various purposes – personal, interpersonal and academic

### **Writing**

1. To use language to explore ideas and build concepts
2. To write with increasing competence in a variety of forms such as poems, stories, journals, essays
3. To use transactional forms effectively, e.g. letters, reports, receipts
4. To demonstrate awareness of writing as a process
5. To write with increasing competence in Standard English using appropriate structures and mechanics
6. To write with an expanding vocabulary on a range of subjects
7. To develop sensitivity to and interest in using figurative language
8. To create visual representations to express their own meanings
9. To develop the writing habit

10. To experience the joy of creativity through production of creative pieces
11. To develop and demonstrate the ability to write for particular purposes : inform, comment, evaluate, persuade

### **Grammar**

1. To write correctly using the basic structures and mechanics of Standard English
2. To learn the rules and strategies for spelling new words and words used regularly
3. To understand the effect of structure and mechanics on meaning
4. To know the basic differences between the forms of Creole and Standard English
5. To demonstrate an understanding of the difference between the oral and written modes
6. To develop an appreciation for the rules governing any language

### **Thinking and Problem Solving**

1. To formulate clear ideas
2. To give, receive and follow accurately, precise instructions when pursuing a task
3. To analyze the content and message of presentations and make evaluative comments on them
4. To evaluate ideas of self and others
5. To understand that people’s points-of-view influence their statements and actions
6. To respond critically to visual and aural stimuli (telephone, television, radio)
7. To demonstrate a grasp of the basic elements of clear thinking
8. To recognize and apply techniques of problem solving
9. To recognize and avoid obstacles to clear thinking
10. To recognize techniques of persuasion
11. To transfer and integrate experiences across the curriculum
12. To recognize and use strategies for creative thinking
13. To develop the habit of using language to solve problems
14. To foster the habit of thought before action

### **Research Skills**

1. To understand the functions of the parts of a book and use them effectively
2. To devise a clear set of questions that will enable them to select and use appropriate information sources and reference books from the class and school library
3. To know how to use effectively the school library, the internet and other sources of information within the community
4. To investigate a topic using a variety of sources
5. To conduct interviews with classmates and members of the community on various subjects
6. To formulate and administer simple questionnaires
7. To distinguish between main ideas and supporting details



8. To analyze the content and message of visual presentations and make evaluative comments on them
9. To judge the relevance of material for specific topics
10. To summarize information
11. To synthesize information from different sources
12. To present findings in a format appropriate to the subject
13. To acknowledge sources of information using appropriate format
14. To develop an attitude of exploration in order discover truth

### **Study Skills**

1. To understand one's personal learning style and use appropriate strategies to study e.g. mnemonics, acronyms
2. To learn and apply basic strategies: skimming, scanning, outlining
3. To know the aids and strategies for effective study and revision
4. To set management targets
5. To develop concentration

## **RATIONALE FOR DESIGN OF SCOPE AND SEQUENCE**

The design of this Scope and Sequence reflects the present trend world-wide towards more communicative approaches to the teaching of language. The model used here is multi-dimensional. It emphasizes:

- The functions/purposes for which students in grades 7-9 will need language
- Language Experiences – emphasizing Language use in authentic contexts (Highlighted in Unit 3).
- Language Awareness – stressing awareness of their own language and culture and that of others
- Language Skills – highlighting the wide range of skills – linguistic and academic and social – they will need for curricular and extra-curricular activities and the strategies for developing these skills

It will be apparent that some of the skills have been repeated because of the artificial divisions in which the functions / objectives have been organized. In our integrated curriculum, skills would not be repeated but simply reinforced. It is assumed that the skills detailed here will be developed not only in the hours allocated to Language on the timetable, but also through integration with all the subject areas.

In sequencing, an attempt has been made to focus on the difficulty level of the materials as well as the needs of the students. However, the acceptance of language as process places limitations on the amount and type of sequencing that can be done.

The key used in the Scope and Sequence is intended to be a guide only, as it is assumed that teachers know their students best and will be flexible in using it.

- I = Introduce (even at the level of readiness)
- D = Develop (systematically in depth)
- M = Maintain (extend and re-teach where necessary)

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SCOPE AND SEQUENCE

**Listening**

OBJECTIVES / FUNCTIONS	SKILLS	7	8	9	ATTITUDES
1. To recognize and practice strategies for listening	1. Establish a purpose for listening	I	D	D	Developing of a disciplined approach to listening
	2. Activate prior knowledge of subject in preparation for listening	D	M	M	Sensitization to dangers of poor listening habits
	3. Recognize and avoid obstacles to good listening	I	D	D	
	4. Focus attention	D	D	D	Appreciation of the role of listening in communication and human relationships
	5. Concentrate on what is being said	D	D	D	
	6. Listen for semantic and numerical cues	I	D	D	
	7. Use Context Clues as aid to meaning	I	D	D	
	8. Make notes or outlines of what is heard	I	D	D	
	9. Review what is being said	-	I	D	
	10. Understand the relationship between the pace of speech and pace of thought	I	D	D	
	11. Understand problems that can arise from poor listening	I	D	M	
2. Listen for comprehension and appreciation at varying levels	1. Recognize and recall facts	D	M	M	Appreciation of the role of the listening in providing feedback and encouragement
	2. Isolate main points	D	D	D	
	3. Listen for sequence, cause and effect, line of reasoning, relevance	I	D	D	
	4. Make predictions	I	D	D	

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	5. Recognize statements of opinion vs fact	-	I	D	
	6. Recognize the use of emotionalism and its effects on sound argument	-	I	D	
	7. Analyse the effects of style on what is understood by the hearer	-	-	I	
3. To listen for specific language purpose in order to improve competence in Standard English	1. Listen for specific vocabulary	D	D	D	Appreciation of the role of listening in language development
	2. Pronunciation	D	D	D	
	3. Effectice speech patterns e.g. pause, pace, tone	D	D	D	
	4. Clarity of thought and expression	-	-	-	
	5. Techniques of questioning and negotiation of meaning	D	D	D	
	6. Story line	D	D	D	
	7. Listen in order to assimilate patterns of written language	D	D	D	
4. To listen sensitively and critically to the iedas of others and to express opinions on what has been heard	1. Concentrate on what is being said	D	D	D	Sensitive and critical listening
	2. Empathize and focus on the development of points being put foward	I	D	D	
	3. Relate what has been heard to one's own ideas and feelings and background knowledge of the subject	D	M	M	
	4. Analyse what is said	I	D	D	
	5. Offer feedback and ask for clarification on what is being said	I	D	D	
	6. Review one's own ideas based on what has been said				

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**Speaking**

OBJECTIVES / FUNCTIONS	SKILLS	7	8	9	ATTITUDES	
1. Understand the importance of language as a means of communication	1. Recognize various forms of communication	I	D	-	Appreciation of language as a tool for communication	
	2. Compare various forms of communication	I	D	-		
	3. Evaluate the effectiveness of the various communication media	I	D	D		
	4. Understand how language grows	I	D	-		
2. Develop conversational skills	1. Listen with concentration	D	M	M	Respect for views of others	
	2. Use appropriate tone and body language	D	D	D		
	3. Respond appropriately to statements made	D	M	M		Appreciation for the importance of tone and body language
	4. Take turns in conversation	D	M	M		
	5. Ask questions	D	M	M		
3. Narrate events in sequence	1. Recognize beginning, crisis, climax and resolution	I	D	M	Appreciation for the value of sequence in narration	
	2. Recognize cause and effect	D	M	M		
4. Speak clearly and concisely	1. Organize thoughts and ideas	D	M	M	Respect for simplicity and clarity in language	
	2. Use simple language to present ideas	M	M	M		
	3. Pronounce words correctly and enunciate clearly with attention to diction, volume and pace	D	D	M		
5. Request, give and receive information	1. Ask questions correctly	D	D	M	Respect for civil behaviour	
	2. Select relevant information	I	D	D		Appreciation for importance of listening
	3. Sequence information	I	D	D		
	4. Interpret information	I	D	D		

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	5. Apply information	D	D	D	
	6. Present information clearly and simply	D	D	D	
	7. Observe common conventions and courtesy	I	D	M	
6. Use language to entertain	1. Evaluate mood and interest of audience	I	D	D	Demonstration of empathy
	2. Select appropriate material for audience	I	D	M	Sensitivity to role of audience in communication
	3. Select appropriate vocabulary	D	D	D	
	4. Know how to create humour, pathos	I	D	D	Appreciation of the importance of body language in communication
	5. Speak clearly and confidently	D	D	D	
7. To express their own and others' ideas with confidence and skill	1. Evaluate ideas as relevant or irrelevant	I	D	D	Acceptance of criticism
	2. Select ideas to present a point-of-view	I	D	D	Self confidence
	3. Recognize the importance of style, tone, connotation etc. on meaning	-	I	D	
	4. Speak clearly and politely	D	D	D	
8 To articulate their own ideas	1. Prioritize needs	I	D	D	
	2. Focus on the relevant problem	I	D	D	
	3. Use appropriate language to achieve desired objective / results	I	D	D	Appreciation of language as a tool for negotiation
9. To use language to build sound interpersonal relationships	1. Choose words carefully to express emotion e.g. sympathy, anger	D	D	D	Sensitivity to the feelings of others
	2. Use body language positively to express emotions	I	D	D	Sensitivity to the role of language in resolving conflict
10. To use language to negotiate meaning	1. Ask questions to gain information	D	D	D	Habit of questioning in order to clarify meaning
	2. Ask questions to clarify and verify understanding	I	D	D	

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	3. Request illustration of idea	I	D	D	
	4. Restate ideas for clarification	I	D	D	
11. To reflect on an evaluate their use of spoken language and reformulate it to help the listener	1. Examine language in relation to purpose	I	D	D	Sensitivity to audience
	2. Check for audience understanding through questions, et.c	I	D	D	
	3. Be aware of audience response, negative and positive, to what has been said	I	D	D	
	4. Reformulate ideas in response to feedback	I	D	D	
12. Use language to explore ideas and build concepts	1. Exchange ideas with others	I	D	D	Openness to new ideas
	2. Ask questions and formulate hypothesis	I	D	D	
	3. Expand and elaborate ideas	I	D	D	Appreciation of hte role of talk in thinking
	4. Use new ideas as base for further thinking	D	D	D	
	5. Extract new learnings for discussion	D	D	M	
	6. To evaluate and adjust hypothesis	I	D	D	
	7. Make predictions based on information	I	D	D	
13. Use language appropriate to situations	1. Use informal language with friends and family	D	D	M	Sensitivity to audience
	2. Use formal language e.g. in church, making reports in science, history	I	D	M	
	3. Understand the role of register, style, tone in language use	I	D	D	Sensitivity to Creole and Standard English
14. To use language to persuade	1. Determine relevant and irrelevant information	I	D	D	Respect for truth and honesty in negotiation
	2. Anticipate questions and likely responses	I	D	D	

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	3. Marshall thoughts and ideas to convince	I	D	D	Respect for others' right to their own opinion
	4. Reason logically	I	D	D	
	5. Select words and expressions carefully	I	D	D	
	6. Emphasize key points by repetition and illustration	-	I	D	
	7. Use tone and voice effectively	I	D	D	
	8. Use body language effectively	I	D	D	
15. To understand the effect of body language on oral communication	1. Understand the role of facial expression, gestures, use of hands, posture, body position in communication	I	D	D	Consciousness of the role of body language in communication
16. To be aware that language can create and minimize conflict	1. Listen with calmness to others	D	D	D	Sensitivity to the power of words
	2. Understand factors contributing to conflict e.g. insensitivity to culture	I	D	-	Sensitivity to culture
	3. Recognize the emergency of conflict and take steps to avoid it	I	D	M	Sensitivity to others' point-of-view
	4. Distinguish between productive and destructive conflict	I	D	D	Avoidance of unproductive conflict



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**READING AND VIEWING**

OBJECTIVES / FUNCTIONS	SKILLS	7	8	9	ATTITUDES
1. To demonstrate awareness of pre-reading and post-reading strategies as aids to improving reading competence	1. Establish purpose of reading	I	D	D	Acceptance of Reading Process
	2. Formulate questions to be answered during reading	I	D	D	
	3. Respond to teacher questions				
	4. Utilize headings, illustrations and topic sentences to predict content and aid comprehension	D	D	M	
	5. Skim to get a general impression of subject matter	I	D	M	
	6. Review material in order to establish main points, re-reading where necessary	D	D	M	
	7. Formulate questions to assess comprehension	I	D	D	
2. To demonstrate knowledge and understanding of reading skills in order to improve reading competence	1. Identify the relationship between sound and symbol	D	M	M	Develop independence in reading
	2. Recognize words	D	D	D	
	3. Syllabicate words to aid recognition	D	M	M	
	4. Be able to choose the appropriate meaning of word from context	D	M	M	
	5. Recognize key words	D	D	M	
	6. Identify word relationships and word functions in sentences	D	D	D	

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	7. Understand the role of sentences and paragraphs	I	D	M	
	8. Infer main ideas and supporting details	D	D	M	
	9. Recognize relationships e.g. cause/effect, time, space	I	D	D	
	10. Make inferences on the basis of information presented	I	D	D	
	11. Use clues from mood, atmosphere and setting to obtain meaning	D	D	D	
	12. Use context clues to predict development of ideas	D	D	M	
	13. See relationship between own experience and text material	D	D	M	
	14. Synthesize, analyze and evaluate all material read	D	D	D	
	15. Focus on the purpose of reading	I	D	D	
	16. Vary reading technique to suit the purpose and content	I	D	D	
	17. Demonstrate different types of reading: oral reading, silent reading, peer-group reading, patterning teacher model, choral reading	I	D	D	
3. To develop vocabulary skills	1. Make efficient use of (a) dictionary (b) thesaurus (c) context clues	I	D	M	Interest in words
	2. Identify root words and use these as clues to meaning	D	D	M	
	3. Identify and use prefixes and suffixes to help with word recognition and meaning	D	D	M	Appreciation of the role of vocabulary in concept formation
	4. Recognize and use synonyms and antonyms	D	D	D	
	5. Identify meaning according to the function of words in context	D	D	D	
	6. Learn to spell correctly	D	D	D	
	7. Pronounce words correctly	D	D	D	
	8. Read with the specific purpose of finding new words	D	D		

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	9. Learn specialised vocabulary in order to facilitate learning in the content areas	I	D	D	
4. To demonstrate oral reading ability	1. Read material aloud with understanding, expression and clarity	I	D	D	Self confidence
	2. Articulate and enunciate clearly	I	D	D	
	3. Project the voice showing consideration for the audience	I	D	D	Appreciation for the beauty of written language and pleasure derived from hearing it read aloud
	4. Read at a pace suited to the material and purpose for reading	I	D	D	
	5. Recognise the effect of punctuation marks on the written word and make use of marks such as ?, !	I	D	D	
	6. Read with awareness of significance of rhyme patterns; rhythm; run on lines; alliteration; onomatopoeia	I	D	D	
	7. Pronounce words correctly	I	D	D	
5. To interpret graphs, charts, etc. from materials at grade level	1. Recognize these as sources of information	I	D	M	Appreciation for the value of other forms of representation of information
	2. Note and describe the content both general and specific	I	D	D	
	3. Identify the author's purpose	I	D	D	
	4. Understand the significance of a title	D	-	-	
	5. Make inferences on the basis of information given in material	I	D	D	
	6. Summarize the information presented	I	D	D	
	7. Evaluate the information presented	I	D	D	
	8. Apply related information and use this as one basis for drawing conclusions	I	D	D	
	9. Understanding the impact of visual presentations	I	D	D	

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<p>6. To understand the relevance of literature to their own lives</p>	<p>1. Use experiences gained from the study of literature to add meaning to their own lives</p>	<p>D D D</p>	<p>Appreciation for literature as a source of vicarious experience and problem solving  Interest in reading literature for personal development</p>
<p>7. To distinguish between various forms of literature</p>	<p>1. Distinguish between fiction and non-fiction; realism and fantasy</p>	<p>I D D</p>	<p>Aesthetic appreciation of literature</p>
	<p>2. Identify the features of (a) informational texts as distinct from fiction, (b) realism as distinct from fantasy</p>		
	<p>3. Identify/appreciate the difference between poetry and prose</p>	<p>D M M</p>	
	<p>4. Identify different types and functions of dramatic form e.g. pantomimes, comedy, tragedy, improvisation</p>	<p>I D D</p>	<p>Appreciation of literature as a means of vocabulary expression</p>
	<p>5. Examine and discuss the writer's use of language to create word pictures, sounds feelings</p>	<p>I D D</p>	
<p>8. To read literature with an appreciation for the inter-relatedness of plot, character, setting, theme and style</p>	<p>1. Understand the elements of each genre e.g. story; poem; drama and their relationship to each other</p>	<p>I D D</p>	<p>Appreciation for the writer's craft</p>
	<p>2. Understand the techniques of plot development</p>		
	<p>3. Trace the development of plot in a story</p>		

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	4. Understand the techniques of characterisation, analyse and draw conclusions about characters			
	5. Understand how the basic elements contribute to the overall development of the poem, story or play			
9. To evaluate different types of reading material	1. Recognize the writer's purpose: inform, persuade, entertain	I	D	D
	2. Evaluate style in relation to content and purpose, whether humorous, straightforward, satirical, casual, conversational			
	3. Understand techniques such as appeal to emotion, generalization, exaggeration	-	D	D
	4. Recognize propaganda and arguments for and against, attempts to influence opinion, use of words to create bias			
	5. Distinguish relevant from irrelevant information	I	D	D
	6. Analyse the material in order to determine what can be considered fact and what can be considered fiction or opinion			
	7. Change conclusions in the light of new information	I	D	D
10. To read a range of material with increasing independence	1. Discriminate between different types and levels of material	I	D	D
	2. Select and evaluate material appropriate to their needs citing reasons for choices, e.g. reading for specific tasks, general information, relaxation	I	D	D
	3. Demonstrate various levels of understanding of material read, e.g. literal, inferential, critical	D	D	D

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11. To analyse the content and message of visual materials and make evaluative comments on them.	1. Select and examine visuals for specific purposes	I D D	Consciousness of the role and value of the visual media
	2. Understand the effect of colour and appeal in pictures, sound, lighting and colour television	I D D	
	3. Appreciate and evaluate visual media as a vehicle for vicarious experience and cultural awareness	I D D	Critical appreciation of the role of the visual media in learning, information and entertainment
	4. Understand the importance of experience and background knowledge in effective viewing	I D D	
	5. Recognize the materials as expressing point-of-view and be able to interpret the view being expressed e.g. in cartoons, advertisements	I D D	
	6. Comment on the effect of visuals on message and mood	I D D	
	7. Understand and evaluate the techniques used in advertising	I D D	
12. To demonstrate an appreciation of technology as a teaching / learning device	1. Use the computer to locate, create, update, store and retrieve information	I D D	Appreciate the role of technology in the creation and dissemination of information

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**WRITING**

OBJECTIVES / FUNCTIONS	SKILLS	7	8	9	ATTITUDES
1. To demonstrate awareness of writing as process	1. Understand and use the steps in the writing process e.g. reflection, pre-writing, writing, post-writing	I	D	D	Appreciation of writing as process
	2. Reflect on one's experiences and those of others	I	D	D	
	3. Understand how to respond sensitively to the writing of others	I	D	D	Sensitivity to the value of criticism from peers  Co-operative learning
2. To use language creatively	1. Understand and use the creative process in order to produce efforts	I	D	D	Appreciation of writing as a source of pleasure to self and others
	2. Use parts of speech to convey mood, message, attitudes, pictures	I	D	D	Sensitivity to the effectiveness of different parts of speech in writing
	3. Use figurative language to enhance creative expression	D	D	D	
	4. Choose words carefully to create mood, and atmosphere and to evoke a particular response in the reader	I	D	D	Appreciation for the value of creativity in thinking and doing
3. To use language to explore ideas and build concepts	1. Select precise words to express thoughts and opinions : To inform, entertain, express points of view, argue, persuade, evaluate	D	D	D	Appreciation of the varied functions of language
	2. Combine words to express thoughts effectively	D	D	D	
	3. Order and develop ideas to make full, clear paragraphs	D	D	D	

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	4. To reflect on ideas of self and others	D D D	
4. To write with increasing competence in a variety of forms e.g. subjective: journals, poems, personal experiences, stories objective : formal report, factual essays, scientific observations	1. Understand the difference between objective and subjective types of language	D D D	Appreciation of writing as a major form of communication and expression
	2. Understand and use language appropriate to each type	I D D	
	3. Display increasing levels of originality, fluency and coherence	D D D	
	4. Write with awareness of audience	D D D	
	5. Use the relevant structures and mechanics in order to clarify meaning	D D D	Appreciate the role of mechanics in conveying meaning
5. To use transactional forms effectively	1. Use language appropriate to specific forms	I D D	
	2. Recognize the importance of tone, clarity, sequence and precision in formal correspondence	I D D	Appreciate the need to conform to the conventions of formal writing
	3. Select and organise information in order to make a coherent statement	D D D	
	4. Recognise and use the conventional forms in business correspondence	I D D	
6. To write with an expanding vocabulary on a range of subjects	1. Know and use the strategies for generating vocabulary relevant to specific topics	I D M	
	2. Know and use the vocabulary relevant to each subject area	D D D	Sensitivity to the vocabulary in each subject area
7. To create visual representation to express meanings	1. Be able to summarize and extract main ideas for visual presentations	I D D	Appreciation for the usefulness of visuals to enhance presentation of material



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2. Know common types of visual presentations and their uses : graphs, diagrams, tables	I	D	M
3. Select and use best method of representation to suit purpose	D	D	D
4. Select and use information to produce / present clear visuals	D	D	D

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**GRAMMATICAL SKILLS**

OBJECTIVES / FUNCTIONS	SKILLS	7	8	9	ATTITUDES
1. To write correctly using the basic structures and mechanics of standard English	1. Understand and use correctly subject/verb agreement, singular and plural forms of nouns and pronouns	D	D	M	Desire to write correctly
	2. Understand and use correctly tense forms e.g. present, past, and future in their simple and continuous forms	D	D	M	
	3. Use correctly subject and object forms of pronouns	D	D	M	Appreciation of the difference between Creole and Standard English
	4. Distinguish between adjective and adverbs forms and use them effectively	D	D	M	
	5. Use prepositions, conjunctions, articles and qualifiers and possessive markers	D	D	M	Appreciation for the effect of structure and form on meaning
	6. Understand the effect of structure, form and mechanics on meaning	D	D	M	
	7. Use correct punctuation forms	D	D	M	
	8. Understand and use the passive voice in situations where it is needed	-	I	D	
	9. Analyse their own errors and make relevant adjustments	I	D	D	
	10. Distinguish between standard and non-standard errors in Standard English	D	D	M	
	11. Identify features of JC: (a) Sound (phonology) (b) Grammar (syntax) e.g. the article; the verb "to be"; tense, agreement, number, the passive voice (c) Meanings (semantics)	I	D	D	
	12. Distinguish between Creole and Standard English features (grammar, pronunciation, word meanings) in their speech and writing.	I	D	D	Appreciation of the difference between Creole and Standard English

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**THINKING AND PROBLEM SOLVING**

OBJECTIVES / FUNCTIONS	SKILLS	7	8	9	ATTITUDES
1. To demonstrate grasp of the elements of clear thinking	1. Formulate clear ideas to show thinking and avoidance of ambiguity	D	M	M	Habit of thought before action
	2. Understand the influence of point-of-view, bias, prejudice on statements and actions	I	D	M	
	3. Recognize techniques of persuasion	I	D	M	Appreciation for clear thinking
	4. Recognize and avoid obstacles to clear thinking e.g. fallacies, value statements	-	I	D	
	5. Recognize and use strategies for creative thinking	-	I	D	
	6. Evaluate ideas of self and others	-	I	D	
	7. Analyse the content and message of verbal and non-verbal information and make comments on them	I	D	M	
2. To recognize and apply techniques of problem solving	1. Give, receive and follow accurately, precise instructions when pursuing a task	D	D	M	Habit of using language to solve problems
	2. Recognize that a problem exists	I	D	M	
	3. Define the problem	I	D	D	Acceptance of responsibility for decisions
	4. Review known information	I	D	M	
	5. Transfer and integrate experiences across the curriculum	D	M	M	Awareness of the importance of good inter-personal relationships
	6. Plan how to deal with the problem	I	D	M	
	7. Take action and face consequences	I	D	M	
	8. Review decisions	I	D	M	
	9. Recognize need to change conclusions in light of new information	I	D	M	
	10. Use problem solving techniques in solving real-life problems	I	D	M	

**RESEARCH SKILLS**

1. To investigate a topic using a variety of sources	1. Know how to use the library, the internet, computer software and other technological resources effectively	I D D	Appreciation for the role of library and information technology in learning
	2. Know the various sources of information available in the school and the wider community and their uses e.g. encyclopedia, newspaper, resource persons	I D M	Appreciation for the value of community resources in research
	3. Devise a set of questions to guide research	I D D	
	4. Provide opportunity for expressing oral and written forms of everyday experiences in a word, a phrase, a sentence or a short paragraph	I D D	
	5. Select relevant sources of information and relevant material from these sources	I D M	Habit of exploration in order to discover truth
	6. Distinguish between the ideas and supporting details	D M M	
2. To extract and organise essential content from a more extensive source	1. Select and organise information using precise words to create a concise piece.	I D D	
	2. Present findings in a format appropriate to the subject	I D D	
3. To conduct interviews on various topics	1. Distinguish between formal and informal interviews and understand the uses of each	I D D	Sensitivity to the ideas of others
	2. Plan procedures for conducting interviews	I D D	
	3. Formulate questions to gain information	I D M	

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	4. Listen with concentration and sensitivity in order to probe with follow-up questions	I	D	D	
	5. Record interviews using tape-recorders and written formats	I	D	D	
	6. Show appreciation to interviewer	I	D	D	
4. To use reference books efficiently and with discrimination according to purpose	1. Understand the various functions of the parts of a book and use them effectively e.g. title, table of contents, index, title page, glossary	D	D	M	Habit of critically evaluating material according to its source and date
	2. Understand how to use encyclopedias, dictionaries as aids to learning and research	D	D	M	
	3. Distinguish between statements of fact and statements of opinion	I	D	M	
	4. Compare information found in various sources	I	D	D	
5. Synthesize information from different sources	1. Formulate a clear opinion on a theme	I	D	D	Interest in creativity
	2. Complete notes in organised manner	I	D	M	
	3. Cite references to support points made	I	D	D	Willingness to give credit for the ideas of others
	4. Use tables and graphs and other visual representation as appropriate	I	D	D	
	5. Create an original product	D	D	D	
	6. Present findings in a format appropriate to the subject	D	D	D	
	7. Prepare bibliography	I	D	M	

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**STUDY SKILLS**

OBJECTIVES / FUNCTIONS	SKILLS	7 8 9	ATTITUDES
1. To understand one's personal learning style	1. Realise how and under what conditions one learns best – e.g. auditory, hands on		To appreciate individual differences
2. To learn and apply new techniques of learning for effective study and recall	1. Use appropriate study aids mnemonics, acronyms, repetition, highlighting, writing for recall		Willingness to learn new strategies to enhance learning
	2. Learn and apply basic strategies: skimming, scanning, outlining, SQ3R strategy		
3. To develop concentration	1. Set purposes for reading and study: self questioning and evaluation		

## STRATEGIES FOR EVALUATION

### **The curriculum will be evaluated using:**

- Diagnostic Testing
- Formative Evaluation
- Summative Evaluation

### **It will incorporate as much as possible:**

- Self Evaluation
- Peer Evaluation
- Teacher Evaluation
- Parent Evaluation (in special areas)

### **The following strategies are recommended to facilitate the various approaches:**

- Achievement Tests
- Analytic Rating Scales
- Anecdotes
- Artistic Products
- Check Lists e.g. for comprehension skills, study skills
- Creative Products
- Compositions
- Dramatization
- Diagnostic Tests
- Experimental Narratives
- Holistic Marking
- Homework
- Informal Reading Inventory
- Interviews
- Journals
- Learning Logs
- Oral Presentations
- Observation
- Project Work
- Questionnaires e.g. to establish student background and interests: teacher response
- Role-Play
- Tracking Sheets
- Writing Portfolios

**Students' Resource List**

<b>Author</b>	<b>Title</b>	<b>Publisher</b>
Vic Reid	Young Warriors (7)	Longman Caribbean
Stewart Brown et al	Voice Print (7-9)	Longman
Jean D'Costa	Escape to Last Man's Peak) Voices in the Wind ) (7) Sprat Morrison )	Longman
Everard Palmer	A Cow Called Boy (7)  The Cloud with the Silver Lining (7)	Longman
Jean D'Costa & Velma Pollard (Eds)	Over Our Way (7-9)	Longman
Pamela Mordecai	Sunsong 1&2 (7-9)	Longman
Pamela Mordecai (Ed.)	From Our Yard (7-9)	Inst. of Ja. Publications
Velma Pollard	Anansesem (7-9)	Longman
Mark Twain	Tom Sawyer (8) ) (Longman's Simplified Series) 2,000 Word Vocab. (8) )	Longman
Robert L. Stevenson	Treasure Island (7) )Foundation 2 (Series 740 Ladybird) )	Longman
	The Adventures of Sinbad (7) ) The Sailor (Longman's Classics: Simplified by D. K. Sivan,) Illus. by Andrew Brown ) Stage ) Normative 3	Longman
Sir Arthur Conan Doyle	Three Adventures of Sherlock Holmes (Simplified by Frances Johnston – Stage 4) (7-9)	Longman



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**Students’ Resource List (cont’d)**

John Steinbeck	The Pearl (9)	
Gus Thomas	Della (9)	Jamal Foundation Kingston
Basil Lopez	Easy Street (9)	Jamal Foundation Kingston
Evon Blake	Legend of the God Bird (9)	Jamal Foundation Kingston
Peggy Campbell & Monica Sterling	Lover’s Leap and other folk stories (L2) (7)	“
Evon Blake	Money for Mama ) ) (7-9) ) Foundation 2 Night Out of Town ) ) ) ) ) )	“
Mary Dixon	From Horseback to ) Jetplane (L4)(7-9) )	“
Chinua Achebe	Things Fall Apart (9) Odale’s Choice (9)	Heinemann
Michael Anthony	Green Days by the River (9)	“
Earl McKenzie	A Boy Named Ossie (7-9)	“
Morna Stuart	Marassa & Midnight (8)	“
Zee Edgell	Beka Lamb (9)	“
Merle Hodge	Crick Crack Monkey (9)	“
Jan Carew	Black Midas (9)	

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Evan Jones	Tales of the Caribbean (9)	Ginn 1990
GOJ/OAS HIRLAP	Butterfly Series (7-9) Foundation 2 Normative 3	

**Reference Material**

Oxford Dictionary  
Roget's Thesaurus  
Dictionary of Synonyms & Antonyms  
Who's Who in Jamaica  
Tell Me Why  
Jamaica Journal  
Daily Gleaner  
Children's Own  
Mcmillan Children's Encyclopaedia

**Material & Supplies**

Newsprint  
Writing Folders/Portfolios

**GOVERNMENT OF JAMAICA/ WORLD BANK  
REFORM OF SECONDARY EDUCATION  
(R.O.S.E)**

***CURRICULUM GUIDE***

***MATHEMATICS***

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Kingston, Jamaica  
December, 1998

## ACKNOWLEDGEMENTS

We would like to acknowledge the contributions made by the following people in the initiation, planning and preparation of this document.

- Mrs. Lola Williams, Mrs. Adelle Brown, Mrs. Janet Johnson, Miss Isoline Reid, successive ACEO's of the Core Curriculum Unit, who facilitated the whole curriculum development process.
- Mrs. Marjorie Vassell who coordinated the piloting and revision of the curriculum documents.
- Mr. Phillip Nissen and Mrs. Esperanza Tomlinson of the Faculty of Education, University of the West Indies (UWI), whose diagnostic testing of Grade 7 students yielded findings which informed this curriculum.
- Dr. Audrey Aarons, International Consultant (Curriculum), who guided the consultants and Education Officers through the initial stages of the curriculum development process.
- Ministry of Education Officers in the Core Curriculum Unit, the late Mrs. Jascithe Bourne, Rev. Stephen Jackson, Miss Beatrice Wilson, Mrs. Rosalyn Kelly and Mr. Derrick Hall.
- The Administrative Staff of the World Bank IV Project, the Core Curriculum Unit and Education Development Centre (EDC) local officer, who assisted in the preparation of materials.

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Mrs. Cynthia Cooke, Camperdown High School  
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## **Curriculum Guide – Mathematics**

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## **PHILOSOPHY**

We live in a dynamic society with knowledge increasing at an unpredictable rate. With the accompanying advance in technology, developing countries are no longer insulated from the effects of these changes, as evidenced by the extent to which the whole world is fast becoming a global village with constant interaction on many levels. One goal of education is the preparation of the young not only for this changed world, but also with the willingness and ability to face new and changing situations.

Mathematics continues to be an important component in the formation of the educated person and as such, mathematics education should reflect the goals of education in a dynamic society. We must therefore address not only the acquisition of skills and mastery of ideas. We must address more than the accumulation of facts and principles. Mathematics education in the age of information must place emphasis on the higher skills of discussion, interpreting and evaluation. Also, the acquisition of communication skills must become one of its prime goals.

As the ability to communicate demands a level of understanding of concepts within the range of ones' real life experiences, not only must every effort be made to establish clear understanding of previous knowledge, but to introduce new concepts in the context of real life experiences. This should enhance understanding.

Since many mathematical ideas are abstract in nature, every effort must be made to reduce the range of such concepts at the lower level. It is the understanding and grasp of concepts in practical experiences that give children the confidence to go on to more abstract ideas in later years.

Mathematics is all around us with situations that are not necessarily cast in a 'right-wrong' mould, but generate the need to observe, discuss, relate, analyze and draw conclusions. In drawing upon the wealth of environmental situations, children can be led to investigate, experience success and develop the level of confidence to talk mathematics.

Based on the philosophy that mathematics is all around us and that everyone uses and understands some mathematics, the Mathematics Curriculum for Grades 7-9 is designed to:

1. explore the existing body of knowledge;
2. correct, where necessary, and build upon this knowledge through activities related to everyday life, through applying (mathematical) principles of investigating, reasoning, estimating, forming conjectures and testing them, and through meaningful communication;
3. expand knowledge through the formation of new concepts while establishing the inter-relatedness of mathematics with other disciplines;

4. enable the development of attitudes of self-awareness and self-confidence, appreciation of enquiry, independent thinking, willingness to share, and cooperation with others in the pursuit of knowledge.

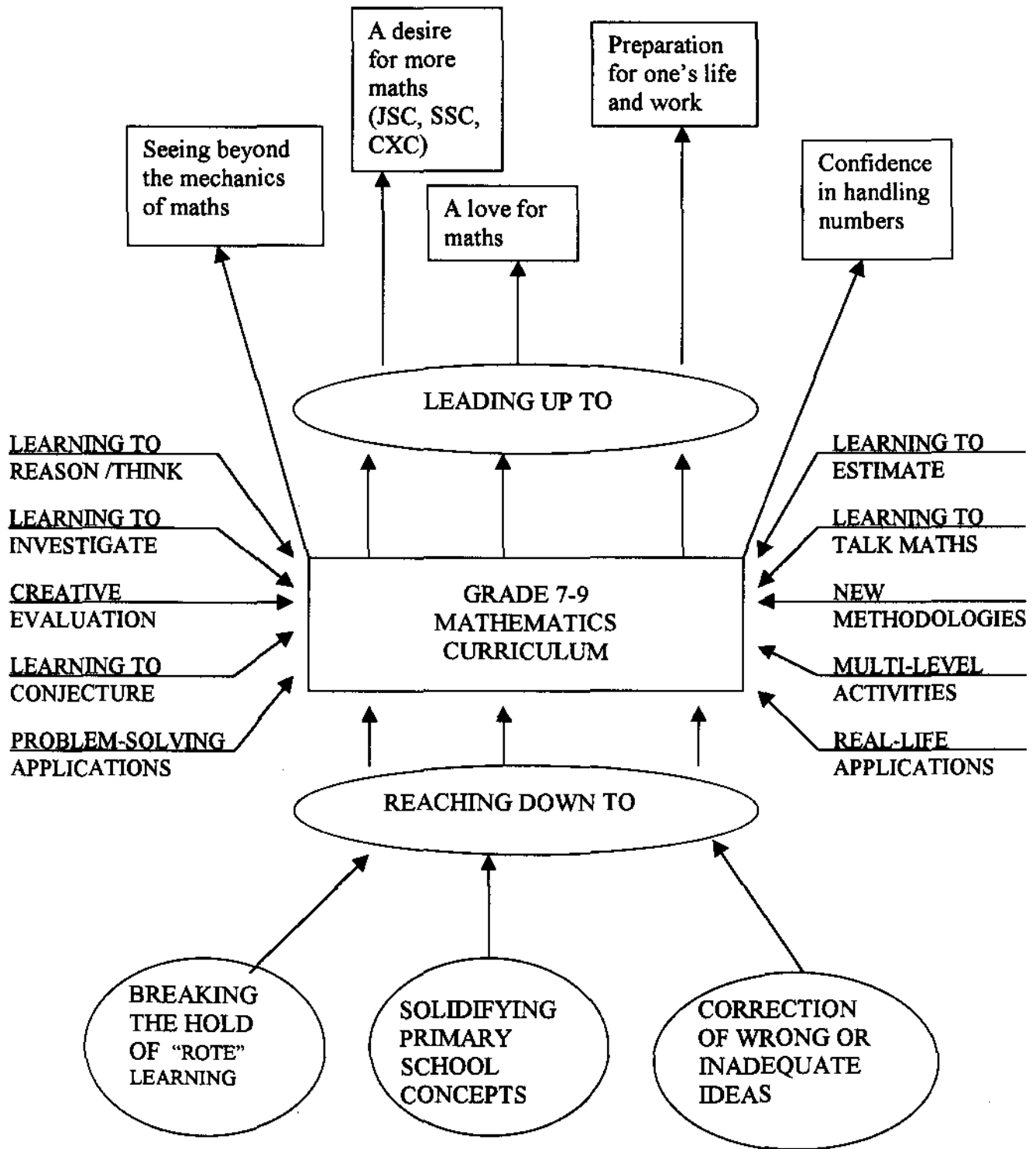
In keeping with this philosophy, learning activities should incorporate life experiences using them to correct faulty concepts, to reinforce previously learnt ones and build new ones. Mathematics should therefore be placed in contexts that give meaning to ideas and concepts.

Problem statements that arise from everyday experiences that are not necessarily textbook situations should be the focus of instruction, and at every level the students should be encouraged to formulate their own problems and ask questions that signal their own understanding and interest.

While the curriculum seeks to explore student's existing body of knowledge, instruction must challenge them to expose and use their previous knowledge in new learning situations. Learning must become, for the learner, an active experience in which the teacher guides rather than dictates the pace and assimilation of knowledge.

There should be ample opportunities for individual, group and whole class activities with an acceptable apportionment of time to all these kind of activities. Group activities offer opportunities for the students to talk about and test their ideas, listening to and evaluating their peers, thus helping them to develop their ability to communicate and reason. At the same time group activities give the teachers opportunities for closer interaction with the students. In group activities individuals develop the confidence in their own ideas which enables their participation in whole class situations.

The diagram on the following page illustrates the linkages described.





## RATIONALE

Children from a very early age, begin to encounter basic ideas that will gradually evolve into more sophisticated mathematical concepts. Given a set of building blocks, for example, a young child will be able to group them close together, spread them out to form a line or even arrange them according to colour. These are mathematical concepts being developed in young children through their many discoveries as they play with objects in their environment. It is with these early experiences that children gradually begin to associate language. The teaching of mathematics serves to enhance and expand these creative abilities into logical and conceptual mathematical competencies.

It is evident, therefore, that mathematics has a vital role in the process of development and is considered to be one of the “basics” of education. The process of education must provide for opportunities to develop and extend mathematical competencies through the use of effective problem-solving processes. The ability to reason and apply mathematics in problem situations is considered an integral part of the basic skills required for mathematical literacy. The ability to solve problems increases with importance in light of the rapidly changing demands of today’s technological society. Mathematics plays an important role:

- a) in our everyday lives as we interact in society
- b) at the workplace, whatever our vocation might be
- c) by developing within each individual the problem-solving skills that we all need
- d) in equipping us to meet the challenges of technology.

The Grades 7-9 Mathematical Curriculum is designed to meet these needs through the inclusion of relevant mathematical concepts, skills and attitudes.

## GOALS AND GENERAL OBJECTIVES

The Mathematics Curriculum developed for Grades 7-9 has as its goals:

1. The development of the problem-solving approach to learning mathematics and the willingness to accept the challenges of new situations.
2. The development of skills of creativity, enquiry, conjecturing, testing and generalizing.
3. The development of an awareness of number size and meaning, and the skills of estimation and approximation as means of establishing the reasonableness of answers.
4. The development of the meaning of measure as an attribute of an entity.
5. The development of an understanding of basic mathematical concepts and the ability to transfer this understanding to other situations within and outside the subject.
6. The development of an awareness of mathematics across the curriculum.
7. The development of the ability to discuss, interpret and evaluate data.
8. The acquisition of the language of mathematics to enable communication.
9. The development of an appreciation of technology as an aid to the learning experience.
10. The appreciation of mathematics in the environment and its application to real life experiences.
11. The reinforcement of the enjoyment of doing mathematics.

Upon completion of this course it is expected that students will be able to:

1. Demonstrate the mathematical competence necessary to function in society. This includes the ability to:
  - a) recall or recognize mathematical facts, definitions and symbols;
  - b) count, measure and handle money
  - c) conceptualize spatial properties.
2. Perform mathematical manipulations. This includes the ability to:
  - a) do straight-forward computations with confidence;
  - b) manipulate mathematical ideas

3. Demonstrate an understanding of mathematical concepts and processes. This includes the ability to:
  - a) communicate ideas effectively;
  - b) transform from one type of representation to another e.g. words to symbols and vice versa; equations to graphs, etc.
  - c) apply (mathematical) knowledge and understanding in new situations, both common and complex.
  
4. Use mathematics and mathematical reasoning to analyze given situations. This includes the ability to:
  - a) make conjectures;
  - b) gather information or numerical data needed for investigating/exploring an idea;
  - c) arrange and present findings logically.
  
5. Select knowledge, information and techniques that are needed to solve a particular problem (social, technical or academic) and apply these in the actual solution of the problem.
  
6. Appreciate the importance and relevance of mathematics as a necessary and valuable tool in everyday life.

## SCOPE AND SEQUENCE BY STRANDS

### INTRODUCTION

The Scope and Sequence by Strands reflects several recent research developments, and in particular, the emphasis of the National Council of Teachers of Mathematics Curriculum and Evaluation Standards.

We feel strongly that teachers being aware of the time constraints upon them, the level of attainment of their students and the level of interest being shown, should be the best judges of when to move from one strand of work to another. We strongly suggest the writing of unit plans, lasting from two to four weeks in most cases, in order to keep the syllabus on track and work varied.

**WORK SHOULD NOT BE LIMITED TO ANY SINGLE STRAND FOR MORE THAN 4 WEEKS. EVERY STRAND HAS AN IMPORTANT ROLE TO PLAY IN THE INDIVIDUAL'S DEVELOPMENT.**

It is expected that if concepts rather than algorithms are properly taught, the need for re-teaching, remediation and revision will be seen to be much less than was previously the case.

What follows is laid out in four columns – the prerequisites for Grade 7 refer to the Primary School experience. Thereafter, prerequisites are to be found in the previous grade's work.

**FINALLY, THE SCOPE AND SEQUENCE BY STRANDS IS ONLY A GUIDE. IF YOUR STUDENTS CAN GO FURTHER AND DEEPER INTO A TOPIC, DO NOT FEEL OBLIGED TO STOP. THE WORKLOAD IS A SUGGESTED MINIMUM THAT IS TO BE TAUGHT IN ALL SCHOOLS AT THE GRADES INDICATED.**

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<p><b>1. Number</b></p> <ul style="list-style-type: none"> <li>• Sort and classify objects by different attributes</li> <li>• Basic Place Value ideas</li> <li>• Facility in counting - forwards, backwards and in simple multiples</li> <li>• Simple number patterns</li> </ul>	<p><b>1.1 Number</b></p> <p><b>1.1.1</b> The digits</p> <p><b>1.1.2</b> Numerals</p> <p><b>1.1.3</b> Place Value</p> <p><b>1.1.4</b> Addition and subtraction</p> <p><b>1.1.5</b> Multiplication and division</p> <p><b>1.1.6</b> Approximation</p> <p><b>1.1.7</b> Short cuts to computation</p> <p><b>1.1.8</b> Some special numbers (including HCF and LCM)</p> <p><b>1.1.9</b> Divisibility tests</p> <p><b>1.1.10</b> Use of a pocket calculator</p> <p><b>1.1.11</b> Illustrating procedures with flow charts</p> <p><b>1.1.12</b> Ordering</p> <p><b>1.1.13</b> Counting</p> <p><b>1.1.14</b> Sequencing and number patterns</p> <p><b>1.1.15</b> Comparing</p> <p><b>1.1.16</b> Using numbers to solve real problems</p>	<p><b>1.5 Integers &amp; Rational Numbers</b></p> <p><b>1.5.1</b> Extend the number line to include negative numbers</p> <p><b>1.5.2</b> Recognize and apply negative numbers appropriately</p> <p><b>1.5.3</b> Compare and order integers and rational numbers</p> <p><b>1.5.4</b> The four operations on integers</p> <p><b>1.5.5</b> Further work on number patterns</p>	<p><b>1.11 Integers &amp; Rational Numbers</b></p> <p><b>1.11.1</b> Make comparison between and order integers and rational numbers with less reliance on the number lines</p> <p><b>1.11.2</b> Add, subtract, multiply and divide integers</p> <p><b>1.11.3</b> Add, subtract, multiply and divide decimal fractions</p> <p><b>1.11.4</b> Add, subtract, multiply and divide common fractions</p> <p><b>1.11.5</b> Significant figures as a means of approximation</p>

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<b>Number (cont'd)</b>	<p><b>1.2 Fractions</b></p> <p><b>1.2.1</b> The idea of a fraction</p> <p><b>1.2.2</b> Fractions as the result of division</p> <p><b>1.2.3</b> Equivalent fractions</p> <p><b>1.2.4</b> Mixed Numbers</p> <p><b>1.2.5</b> Computation using fractions</p> <p><b>1.2.6</b> Ordering fractions</p> <p><b>1.3 Percentages</b></p> <p><b>1.3.1</b> Find the given percent of a whole number</p> <p><b>1.3.2</b> Express one quantity as a percentage of another</p> <p><b>1.4 Sets</b></p> <p><b>1.4.1</b> The language of sets</p> <p><b>1.4.2</b> Types of sets</p> <p><b>1.4.3</b> Use of symbols</p> <p><b>1.4.4</b> Venn diagrams</p>	<p><b>1.6 Number Bases</b></p> <p><b>1.6.1</b> The arithmetic operations of addition, subtraction and multiplication on numbers written in base 2 and 5</p> <p><b>1.6.2</b> Conversion of numbers written in base 2 and base 5 to base 10 and vice versa</p> <p><b>1.7 Common and Decimal Fractions and Percentages</b></p> <p><b>1.7.1</b> Rounding off to a given number of decimal places</p> <p><b>1.7.2</b> Estimate the results of computations with decimals, fractions and percentages</p> <p><b>1.7.3</b> Conversion between common fractions, decimal fractions and percentages</p> <p><b>1.7.4</b> Concept of fractions as ratios</p>	<p><b>1.12 Indices</b></p> <p><b>1.12.1</b> Index as an indication of repeated multiplication</p> <p><b>1.12.2</b> The index notation</p> <p><b>1.12.3</b> Multiplication of numbers in index form</p> <p><b>1.12.4</b> Powers on the calculator</p> <p><b>1.13 Standard Form</b></p> <p><b>1.13.1</b> Understand the need for standard form (by observation on the calculator)</p> <p><b>1.13.2</b> Write numbers greater than 10 in standard form stating the degree of accuracy</p>

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<b>Number (cont'd)</b>		<p><b>1.8 Use of Calculator</b></p> <p><b>1.8.1</b> Using the calculator to solve real problems</p> <p><b>1.8.2</b> Assessing the reasonableness of an answer given by a calculator</p> <p><b>1.8.3</b> Investigating number patterns using a calculator</p> <p><b>1.9 Square Numbers and Square Roots</b></p> <p><b>1.9.1</b> (Figurative) number patterns</p> <p><b>1.9.2</b> Square numbers</p> <p><b>1.9.3</b> Square roots of perfect squares</p> <p><b>1.9.4</b> Squares and square roots on the calculator</p> <p><b>1.10 Venn Diagrams</b></p> <p><b>1.10.1</b> Sorting sets from data given in verbal form</p> <p><b>1.10.2</b> Using Venn diagrams to illustrate data</p> <p><b>1.10.3</b> Obtaining data from Venn diagrams</p>	<p><b>1.14 Ratio</b></p> <p><b>1.14.1</b> Comparison of two quantities as a ratio</p> <p><b>1.14.2</b> Solve problems which involve ratio</p> <p><b>1.14.3</b> Identify quantities in proportion</p> <p><b>1.15 Computers</b></p> <p><b>1.15.1</b> Difference between a computer and a calculator</p> <p><b>1.15.2</b> Parts of a computer</p> <p><b>1.15.3</b> Difference between hardware and software</p> <p><b>1.15.4</b> Spreadsheets, databases, statistics programmes, maths software, games and simulation</p> <p><b>1.16 Venn Diagrams</b></p> <p><b>1.16.1</b> Sorting sets from data given in verbal form (3 or more)</p> <p><b>1.16.2</b> Illustrating information by using Venn diagrams</p> <p><b>1.16.3</b> Obtaining information from Venn diagrams (3 or more)</p>

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<p><b>2. Measurement</b></p> <ul style="list-style-type: none"> <li>• Use of informal and non-standard units</li> <li>• Concepts of "how much", "as many as", "the nearest"</li> <li>• Basic comparison - e.g. longer, shorter, bigger, smaller</li> <li>• Distinction between counting and measuring</li> </ul>	<p><b>2.1</b> The need for measuring and recording</p> <p><b>2.2</b> What is measured</p> <p><b>2.2.1</b> Length</p> <p><b>2.2.2</b> Mass</p> <p><b>2.2.3</b> Temperature</p> <p><b>2.2.4</b> Time</p> <p><b>2.3</b> How to Measure - Estimation</p> <p><b>2.3.1</b> Need for standard Unit</p> <p><b>2.3.2</b> Units of Measure</p> <p><b>2.3.3</b> Estimating and measuring quantities</p> <p><b>2.3.4</b> Measuring instruments</p> <p><b>2.4</b> Perimeter</p> <p><b>2.4.1</b> Measuring distances around regular and irregular figures</p> <p><b>2.4.2</b> Calculating perimeter of regular figures</p>	<p><b>2.8</b> Area of a Triangle</p> <p><b>2.8.1</b> Estimate areas by counting squares</p> <p><b>2.8.2</b> Discover the formula for the area of a triangle (<math>A = 1/2bh</math>)</p> <p><b>2.8.3</b> Use the formula to solve problems</p> <p><b>2.9</b> Circumference of a Circle</p> <p><b>2.9.1</b> Investigate the relationship between the diameter and the circumference</p> <p><b>2.9.2</b> Establish the relationships <math>C = \pi d</math> and <math>C = 2\pi r</math></p> <p><b>2.10</b> Area of a Circle</p> <p><b>2.10.1</b> Investigate the relationship between the radius and the area</p> <p><b>2.10.2</b> Establish the relationship, <math>A = \pi r^2</math></p>	<p><b>2.11</b> Volume</p> <p><b>2.12.1</b> Find the volume of prisms</p> <p><b>2.12.2</b> Convert from one metric unit of volume to another</p> <p><b>2.12.3</b> Estimation and calculation of the volume of composite shapes</p> <p><b>2.12</b> Area</p> <p><b>2.13.1</b> Derive and use the formulae for area of parallelogram and trapezium</p> <p><b>2.13.2</b> Calculate the area of composite shapes</p> <p><b>2.13.3</b> Problems concerning surface area of solids</p>



**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<b>Measurements (cont'd)</b>	<p><b>2.5</b> Area as a measure of surface</p> <p><b>2.5.1</b> Area of basic shapes</p> <p><b>2.5.2</b> Estimation and calculation of area of basic shapes</p> <p><b>2.6</b> The idea of volume</p> <p><b>2.6.1</b> Volume as space occupied</p> <p><b>2.6.2</b> Principle of conservation of volume</p> <p><b>2.7</b> Measurement – Applications</p> <p><b>2.7.1</b> Applying measurement in a problem-solving context</p> <p><b>2.7.2</b> Calculations involving measurements using both pencil and paper as well as the calculator</p> <p><b>2.7.3</b> Understand the degree of accuracy of a measurement</p>	<p><b>2.10</b> Metric Units of Area, Volume, Capacity</p> <p><b>2.11.1</b> Appropriate units to measure and express area, volume and capacity</p> <p><b>2.11.2</b> Changing between different units of measurement</p> <p><b>2.11.3</b> Volume of cubes and cuboids by counting unit cubes</p> <p><b>2.11.4</b> Establish the formula for the volume of a cuboid</p> <p><b>2.11.5</b> Deducing that the volume of a prism is the product of length and area</p>	

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<p><b>3. Geometry</b></p> <ul style="list-style-type: none"> <li>• The Basic Shapes</li> <li>• Matching Shapes</li> <li>• Concept of "identical to"</li> </ul>	<p><b>3.1 Basic Geometric Concepts</b></p> <p><b>3.1.1</b> Point, line segment, ray, plane, surface</p> <p><b>3.2 Solids</b></p> <p><b>3.2.1</b> The idea of a solid</p> <p><b>3.2.2</b> Solids in the environment</p> <p><b>3.2.3</b> Characteristics of regular solids</p> <p><b>3.2.4</b> Nets of solids</p> <p><b>3.2.5</b> Classification of solids</p> <p><b>3.3 Movement</b></p> <p><b>3.3.1</b> Reflection</p> <p><b>3.3.2</b> Congruence</p> <p><b>3.3.3</b> Strip patterns</p> <p><b>3.3.4</b> Area (textile) patterns</p> <p><b>3.4 Plane Shapes</b></p> <p><b>3.4.1</b> Irregular shapes</p> <p><b>3.4.2</b> Irregular polygons</p> <p><b>3.4.3</b> Regular shapes - quadrilaterals, circles, (including concepts of centre, radius, chord) symmetry</p>	<p><b>3.7 Measurement of Angle</b></p> <p><b>3.7.1</b> Use a protractor to measure an angle</p> <p><b>3.7.2</b> Use a protractor to draw an angle of any given size</p> <p><b>3.8 Types of Angles</b></p> <p><b>3.8.1</b> Angles when lines meet - corresponding, alternate, vertically opposite, co-interior</p> <p><b>3.8.2</b> Sum of angles - supplementary, complementary, angles at a point</p> <p><b>3.9 Triangles</b></p> <p><b>3.9.1</b> Right- angled triangles</p> <p><b>3.9.2</b> Isosceles triangles</p> <p><b>3.9.3</b> Equilateral triangles</p> <p><b>3.9.4</b> Scalene triangles</p>	<p><b>3.14 Enlargement and Scale Drawing</b></p> <p><b>3.14.1</b> Draw a figure enlarged to a given scale factor from a given point</p> <p><b>3.14.2</b> Draw and interpret scale drawings</p> <p><b>3.14.3</b> Interpret a scale as a ratio</p> <p><b>3.15 Sketching Solids</b></p> <p><b>3.15.1</b> Perspective and hidden lines</p> <p><b>3.15.2</b> 3-dimensional sketch of solid</p> <p><b>3.15.3</b> 2-dimensional sketches of different views of solids</p>

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<b>Geometry (cont'd)</b>	<p><b>3.5 Angles</b></p> <p><b>3.5.1</b> Concepts of an angle</p> <p><b>3.5.2</b> Identify the type of angle by observation [acute, obtuse, right, reflex]</p> <p><b>3.5.3</b> Identify the type of angle given its size in degrees</p> <p><b>3.5.4</b> Angles on a straight line</p> <p><b>3.5.5</b> Estimate the size of an angle</p> <p><b>3.6 Straight, Parallel and Perpendicular Lines</b></p> <p><b>3.6.1</b> Identify straight, parallel, perpendicular and intersecting lines</p>	<p><b>3.10 Sum of Angles of Polygons</b></p> <p><b>3.10.1</b> Prove that the sum of angles of a triangle sum to <math>180^\circ</math></p> <p><b>3.10.2</b> Show that any quadrilateral comprises of two triangles and thus its angle sum is <math>360^\circ</math></p> <p><b>3.10.3</b> Generalize for a polygon's angle sum</p> <p><b>3.10.4</b> Calculate unknown angles in given diagrams and problems</p> <p><b>3.11 The Circle</b></p> <p><b>3.11.1</b> Use a pair of compasses to construct a circle of given radius</p> <p><b>3.11.2</b> The concepts of arc, sector, segment of a circle</p> <p><b>3.12 Solids</b></p> <p><b>3.12.1</b> Draw the nets of prisms and pyramids</p> <p><b>3.12.2</b> Construct solids from nets</p>	<p><b>3.16 Types of Quadrilateral</b></p> <p><b>3.16.1</b> Distinguish by considering the number of lines of symmetry - square, rectangle, rhombus, parallelogram, kite, trapezium</p> <p><b>3.16.2</b> Properties of diagonals of each type of quadrilateral</p> <p><b>3.17 Geometric Construction</b></p> <p><b>3.17.1</b> Construction of triangles using ruler, a pair of compasses and protractor</p> <p><b>3.17.2</b> Construct angles of <math>90^\circ</math> and <math>60^\circ</math></p> <p><b>3.17.3</b> Construct parallel and perpendicular lines</p> <p><b>3.17.4</b> Construction of bisectors of a line and angle (including right angle)</p> <p><b>3.17.5</b> Relate 3.17.4 to properties of rhombi</p> <p><b>3.18 The Circle</b></p> <p><b>3.18.1</b> Area of a sector of a circle</p> <p><b>3.18.2</b> Length of an arc</p> <p><b>3.18.3</b> Perimeter of a sector</p>

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<p><b>Geometry (cont'd)</b></p>		<p><b>3.13</b> Transformations</p> <p><b>3.13.1</b> Translation</p> <p><b>3.13.2</b> Rotation</p> <p><b>3.13.3</b> Draw an object and its image given its transformation</p> <p><b>3.13.4</b> Assess the transformation given an object and its image</p> <p><b>3.13.5</b> Similarity</p>	<p><b>3.19</b> Pythagoras' Theorem</p> <p><b>3.19.1</b> Proof of Pythagoras' Theorem using area method</p> <p><b>3.19.2</b> Using the theorem to solve problems</p> <p><b>3.20</b> Trigonometric Ratios</p> <p><b>3.20.1</b> Solve surveying problems by scale drawing - angles of elevation and depression</p> <p><b>3.20.2</b> Establish, by using a calculator, that the ratio of two sides in a right-angled triangle are the same if the angles do not change but the length of the sides increase or decrease</p> <p><b>3.20.3</b> Introduce the trigonometric ratios - sine, cosine, tangent</p>

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<b>4. Statistics</b> <ul style="list-style-type: none"> <li>• Tallying/counting</li> </ul>	<b>4.1 Simple Tables</b> <b>4.1.1</b> Collecting information <b>4.1.2</b> Recording information  <b>4.2 Simple Diagrams</b> <b>4.2.1</b> Pictograph <b>4.2.2</b> Bar Chart <b>4.2.3</b> Pie Chart  <b>4.3 Probability</b> <b>4.3.1</b> Simple predictions <b>4.3.2</b> Concept of expectation	<b>4.4 Representation of Data</b> <b>4.4.1</b> Line graphs <b>4.4.2</b> Collect and organize data <b>4.4.3</b> Choose and construct an appropriate graph for collected data <b>4.4.4</b> Read and interpret data given graphically  <b>4.5 Mode, Median and Mean</b> <b>4.5.1</b> Discuss the idea of an average as a representative value <b>4.5.2</b> Find the mode, median and mean from raw data <b>4.5.3</b> Discuss the appropriate use of each of the three averages  <b>4.6 Probability</b> <b>4.6.1</b> Simple experiments <b>4.6.2</b> Basic probability values	<b>4.7 Representation of data - grouped data</b> <b>4.7.1</b> Histogram <b>4.7.2</b> Frequency Polygon <b>4.7.3</b> Discuss when grouping data is appropriate <b>4.7.4</b> Choose and construct an appropriate graph for collected grouped data <b>4.7.5</b> Read and interpret grouped data given graphically  <b>4.8 Mode, Median and Mean</b> <b>4.8.1</b> Finding mode, median and mean from frequency table <b>4.8.2</b> Use of the three values to describe and interpret information  <b>4.9 Probability</b> <b>4.9.1</b> Discuss the meaning of probability <b>4.9.2</b> Carry out experiments to determine probability <b>4.9.3</b> Use fractions and percentages to describe probabilities <b>4.9.4</b> Interpret a probability given as a fraction or percentage

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<p><b>5. Algebra</b></p> <ul style="list-style-type: none"> <li>• Number Patterns</li> <li>• Use of a letter to represent an unknown quantity</li> </ul>	<p><b>5.1 Rules and Flow Charts</b></p> <p><b>5.1.1</b> Showing methods and rules in flow diagrams</p> <p><b>5.1.2</b> Follow instructions given in a flow diagram</p> <p><b>5.2 Generalizing the rules of Arithmetic</b></p> <p><b>5.2.1</b> Making rules from knowledge of arithmetic operations</p> <p><b>5.2.2</b> Multiplication as repeated addition</p> <p><b>5.2.3</b> Addition and subtraction of like and unlike terms</p> <p><b>5.3 Using rules - finding the unknown</b></p> <p><b>5.3.1</b> Using formulae generated by students</p> <p><b>5.3.2</b> General principles of substitution in formulae using flow diagrams</p>	<p><b>5.6 Mappings</b></p> <p><b>5.6.1</b> Draw a mapping of a given relationship</p> <p><b>5.6.2</b> Construct tables for given mappings</p> <p><b>5.6.3</b> Identify one-to-one mappings and the rule of a mapping</p> <p><b>5.7 Equations</b></p> <p><b>5.7.1</b> Write equations to illustrate story problems</p> <p><b>5.7.2</b> Write problems which give rise to simple equations</p> <p><b>5.7.3</b> Solve equations using flow diagrams and algebra (increase level of difficulty)</p> <p><b>5.7.4</b> Simple literal equations</p>	<p><b>5.8 Simplification</b></p> <p><b>5.8.1</b> Algebraic techniques for simplifying expressions - addition, subtraction, multiplication, division, powers, brackets</p> <p><b>5.8.2</b> Simple factorization</p> <p><b>5.8.3</b> Change subject of simple formulae</p> <p><b>5.9 Simultaneous equations</b></p> <p><b>5.9.1</b> Solution of simultaneous equations by substitution</p> <p><b>5.9.2</b> Solution of simultaneous equations by elimination</p> <p><b>5.10 Inequalities</b></p> <p><b>5.10.1</b> Write inequalities to illustrate story problems</p> <p><b>5.10.2</b> Write simple problems which give rise to simple inequations</p> <p><b>5.10.3</b> Solve simple inequations using number line and algebra</p> <p><b>5.10.4</b> Illustrate inequations with two variables on the coordinate plane</p>

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<p><b>Algebra (cont'd)</b></p>	<p><b>5.4 Terminology</b></p> <p><b>5.4.1</b> The concept of variables, terms, expressions, equations and operations</p> <p><b>5.5 Equations</b></p> <p><b>5.5.1</b> Write equations to illustrate story problems</p> <p><b>5.5.2</b> Write simple problems which give rise to simple equations</p> <p><b>5.5.3</b> Solve simple equations using flow diagrams and algebra</p>		

**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<b>6. Consumer Arithmetic</b>  • Familiarity with Jamaican coins and notes	<b>6.1 Buying and Selling</b>  6.1.1 What is bought and sold - goods and labour 6.1.2 Money as a medium of exchange 6.1.3 Money as a store of wealth  6.2 Unit Costs  6.2.1 Making a unit price given the total inputs 6.2.2 Finding a total price given quantity and unit price 6.2.3 Determination of 'best buy'  6.3 Profit and Loss  6.3.1 Calculate profit and loss in monetary terms 6.3.2 Calculate profit and loss percent	<b>6.4 Banking</b>  6.4.1 Types of account 6.4.2 How to use an account 6.4.3 How to balance an account 6.4.4 Calculate interest on loans 6.4.5 Calculate interest on deposits 6.4.6 Use a calculator to find compounded interest 6.4.7 Commissions  6.5 Taxes  6.5.1 Income Tax 6.5.2 G.C.T 6.5.3 Education Tax 6.5.4 Import Duty 6.5.5 Other taxes and deductions  6.6 Utility Bills  6.6.1 Units uses to measure water, electricity and telephone calls 6.6.2 Interpreting utility bills 6.6.3 Reading utility meters 6.6.4 Reconciliation of utility bills	<b>6.7 Hire Purchase</b>  6.7.1 Identify 'best buys' 6.7.2 Calculate the total cost of buying on hire purchase 6.7.3 The advantage of hire purchase in periods of high inflation  6.8 Foreign Currency  6.8.1 Understanding exchange rates 6.8.2 Converting between currencies 6.8.3 Buying, selling and earning foreign currency  6.9 Consumer Affairs  6.9.1 Relate all topics under Consumer Arithmetic to Grade 9 Social Studies



**Scope of Work Grades 7 – 9**

**Scope and Sequence by Strands**

<b>Prerequisites</b>	<b>Grade 7</b>	<b>Grade 8</b>	<b>Grade 9</b>
<b>7. Graphs</b>	<p><b>7.1 Coordinates</b></p> <p>7.1.1 <math>x</math> and <math>y</math> coordinates as ordered pairs</p> <p>7.1.2 Plotting points on the Cartesian plane</p> <p>7.1.3 Reading points on the plane</p> <p>7.1.4 Connecting points to form patterns</p>	<p><b>7.2 From Mappings to Graphs</b></p> <p>7.2.1 Writing a mapping as a set of ordered pairs</p> <p>7.2.2 Plotting the ordered pairs of a mapping as a graph</p> <p>7.2.3 Gradient of a straight line graph, and points of intersection with axes</p> <p><b>7.3 Simultaneous Equations</b></p> <p>7.3.1 Write down a pair of equations from a story</p> <p>7.3.2 Plot two equations on a graph</p> <p>7.3.3 Interpret the point where the graphs of a pair of equations cross</p> <p><b>7.4 Graphing inequalities</b></p> <p>7.4.1 Graph inequalities on the coordinate plane</p> <p>7.4.2 Identify regions</p>	<p><b>7.5 Quadratic Graphs</b></p> <p>7.5.1 Writing a quadratic mapping as a set of ordered pairs</p> <p>7.5.2 Plotting the ordered pairs of a mapping as a graph</p> <p>7.5.3 Interpretation of points of intersection with the axes</p>

**SUMMARY OF CONTENT**

The Grades 7-9 Mathematics Programme has been divided into seven strands.

**1. NUMBER**

The study of numbers and number systems and the application of number properties and the four basic operations in problem-solving situations. The use of the language of sets and the ability to integrate this into the rest of the curriculum. The proper use of the calculator and computer.

**2. MEASUREMENT**

What it means to measure, how to measure, and the necessity for standard metric units of length, area, volume, capacity, mass, temperature and units of time.

**3. GEOMETRY**

An understanding of fundamental geometric concepts, which give a reference system for conceptualizing real world situations and objects and a vocabulary to describe the environment.

**4. STATISTICS**

The collection of data, its meaningful representation, analysis and interpretation. Making predictions, performing experiments, exploring probabilities.

**5. ALGEBRA**

The structure of algebraic properties and expressions. The application of the four operations in the solution of equations and in-equations.

**6. CONSUMER ARITHMETIC**

The various calculations involved in financial transactions. The roles and responsibilities of the consumer in everyday life.

**7. GRAPHS**

Representation of algebraic relations by means of graphs. Drawing, reading and interpreting such graphs.

## **CALCULATORS IN THE CLASSROOM**

Calculators are widely used in Jamaica. Unfortunately many students have calculators which they are unable to use properly at their grade level.

It is therefore vital that the proper guidance be given in the mathematics classroom in regards to the calculator's use.

The increased open and guided use of the calculator can ensure that children's experiences in mathematics are relevant to real life. It can help them to develop their reasoning skills and promote their understanding and application of mathematics inside the classroom.

Meaningful use of the calculator – how and when to use it – enables the student to understand mathematics as problem-solving, not just operations on endless numbers. It also brings into sharp focus the need for the skill of estimation and the ability to decide if the solution to a problem is reasonable or not.

While all problems are not numerical in nature, many mathematical problems are, and students need to make decisions about calculation procedures. The calculator removes the burden of difficult computation, and students should be encouraged to use it to:

- (a) develop and reinforce skills of estimation and computation
- (b) investigate number patterns
- (c) investigate mathematical ideas
- (d) perform difficult computations

It must be strongly emphasized however, that the calculator is not a replacement for the learning of basic mathematical facts and performing mental computation, therefore, there will be times when the knowledge of basic facts will be tested, especially in Multiple Choice, when the use of calculators will likely be prohibited.

## RESOURCE MATERIALS AND EQUIPMENT

*“Instructional materials are as essential for the mathematics teacher as spices for the chef. They are necessary extra ingredients that make teaching and learning mathematics a pleasant, satisfying experience.”*

(Aichele, 1971)

The availability of materials and equipment for mathematics classes is an important factor in the success of any mathematics programme. Pencils, rulers, protractors, etc. should always be available for use by the teacher and students. It is advisable that such materials be kept in a box if other storage facilities are unavailable. However, each school should establish its own guidelines as to the storage, organization, distribution and replacement of materials.

The newspapers are a rich source of mathematics and publications such as the Money Index offer a bounty of colourful graphs. Scrap books/files could be useful for displaying charts and samples of students' work. Old materials should be replaced at regular intervals.

Teachers are encouraged to make appropriate instructional aids to support their lessons. To this end, discarded, indigenous and other locally obtainable materials can be used to good effect.

In order to teach this programme successfully, the following is a recommended list of teacher and student resource materials.

### Teacher Materials

#### Resource Books

1. *Mathematical Activities*. A resource book for teachers - Brian Bolt  
Cambridge University Press (1984)
2. *Teaching Secondary School Mathematics* – Posamentier and Stepelman  
Merrill Publishing Company (New Edition)
3. *Mathematical Dictionary* – R. E. J. Abdelnoor  
Thomas Nelson & Sons (1989) (OR any similar book)

CURRICULUM GUIDE – MATHEMATICS

4. One (1) set of each of the following suggested textbooks:
- Oxford Mathematics for the Caribbean*, Books 1, 2 and 3  
V. Bent et al. Oxford University Press (1988 or newer edition)
  
  - ST (P) Caribbean Mathematics*, Books 1 2 and 3 (2<sup>nd</sup> Edition)  
Stanley Thornes (Publishers) Ltd. (1998)
  
  - Mathematics for Caribbean Schools*, Books 1, 2 and 3 (2<sup>nd</sup> Edition)  
A. Foster, T. Tomlinson et al. Longman Caribbean (1998)
  
  - Fundamental Mathematics for the Caribbean*, Books 1, 2 and 3  
A. N. Binks, C. Lutchman et al. Heinemann (1996)

## Teaching Aids

1. One (1) set mathematical instruments for use on the chalkboard.
2. Metre sticks
3. Measuring tape
4. One (1) set metric weight (1g - 1000g)
5. One (1) set liquid measures (100ml - 1000ml)
6. Wall thermometer
7. Stop watch
8. Graph board
9. Geoboard
10. Geometric solids (wooden)
11. Calculator
12. A supply of cartridge paper (many colours)
13. Markers
14. Lettering stencils
15. Computers and appropriate software including Internet connections - (wherever appropriate)

**GOVERNMENT OF JAMAICA/ WORLD BANK  
REFORM OF SECONDARY EDUCATION  
(R.O.S.E)**

***CURRICULUM GUIDE***

***SCIENCE***

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Kingston, Jamaica  
December, 1998

## **Curriculum Guide – Science**

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## ACKNOWLEDGEMENTS

This listing is for recognition of the contributions made by the following persons to the initiation, planning and preparation of the Science Curriculum documents, for the Reform Of Secondary Education (R.O.S.E.) programme.

### Original Documents

- Mrs. Lola WILLIAMS, former Assistant Chief Education Officer (A.C.E.O.), Core Curriculum Unit, Ministry of Education, who facilitated the whole curriculum development process.
- Dr. Audrey AARONS, International Consultant (Curriculum), who guided the consultants and Education Officers through the initial stages of the curriculum development process.
- Mrs. Janet JOHNSON, former Educator, World Bank IV Project.
- Teachers in the pilot schools in St. Thomas, who by their involvement in workshops and discussions in the schools, helped in the shaping of the curriculum.
- Education Officers in the Core Curriculum Unit of the Ministry of Education – Mrs. Dorothy POTTINGER, Miss Ohan CLARKE, Mrs. Yvonne MARSHALL, Miss Herma MEADE and Mr. Winston FORREST.
- Consultants\*  
Dr. June MITCHELMORE-HASSAL, International Consultant and science writer, U.K.  
Dr. Barbara BAILEY, Faculty of Education, University of the West Indies (UWI), Curriculum Development and Biology specialist, leader of the team of local consultants.  
Mrs. Myra ALLEN, Shortwood Teachers' College, Chemistry specialist.  
Mr. Peter WHITELEY, Faculty of Education, UWI, Physics specialist.
- \* Under contract to Education Development Centre (EDC),  
Newton, Massachusetts, U.S.A.
- Resource Persons  
Mrs. Florence COMMISSIONG, Science Consultant (now deceased).  
Mrs. Ivy CUMMINGS, Education Officer, Secondary Unit, Ministry of Education.  
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**ACKNOWLEDGEMENTS** continued

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## **PHILOSOPHY**

The Grades 7- 9 Science Curriculum seeks to provide for all students, a basic understanding in science and technology that will serve as a foundation for further learning, as well as assist them to become functionally literate in science and technology. It seeks to develop in students, an ability to apply scientific principles in their everyday lives. This is achieved through providing students with hands-on, process-oriented experiences, which stimulate their minds. They are also helped to work and think in a scientific way, through activities which have them identifying problems, suggesting solutions and testing their hypotheses.

The curriculum is designed to respond to the needs of a variety of students, because it is realized that many students who have reading difficulties and are categorized as slow learners, may have no other disability but the inability to read the written word.

The curriculum takes into consideration, the fact that many of the skills needed to learn to read and perform in other subjects, are provided through the experiences in science.

Research has shown that science and technology experiences can be therapeutic, and so meet the social, psychological and other needs of all children – challenged, exceptional and normal. Activities in this curriculum are designed to help students work co-operatively in groups as they investigate, so that all students can benefit from the experiences.

Altogether, the basic philosophy of this curriculum is to make all students scientifically and technologically literate. Not only will it benefit the students, but it will also benefit the nation. Education in science and technology is important, not only for the social, psychological and economic development of the individual, but of the nation as a whole.

## RATIONALE

Science is a **process** for producing knowledge. The Grades 7 – 9 Science Curriculum take this into account, and provides students with experiences which give them the opportunity to think and work in a scientific manner. Relying on evidence and the use of theories and hypotheses, students strive to make sense of observations and phenomena by inventing explanations.

The opportunities for investigations, and for using critical thinking skills, which are provided in this curriculum, are designed to help all students to:

- (a) understand the basic and important concepts and principles of science, for application in everyday life;
- (b) handle materials and instruments and carry out simple scientific procedures;
- (c) show an awareness of some of the important links between science, mathematics and technology;
- (d) realize that although science and technology can help to solve problems, they also have their limitations;
- (e) understand and apply technical concepts and skills for everyday life;
- (f) demonstrate a capacity for scientific ways of thinking, in making decisions related to individual and group issues;
- (g) develop an awareness of, and concern for, the physical and social environment, and the role of humans in that environment;
- (h) recognize the contribution that each person can make for the improvement of the community, country and world.

Science is a core subject in the curriculum. The skills and processes which are developed in science classes, through the hands-on, minds-on, process-oriented approach which is promoted, are integral to the learning of most other subjects. Problem-solving skills, for example, are developed through a variety of activities, and these skills are encouraged in all other disciplines of the total curriculum.

In science, students are given opportunities to write and talk, as well as develop hands-on, process skills, which are important in learning to read and write. The subject therefore contributes to the development of the language arts. Science sets out to develop an informed citizenry; it addresses social issues and ensures that students are taught to understand, appreciate and appraise, the impact of science and technology on society. In this way, it links with and supports, the social studies component of the curriculum. Science also shares common learning experiences with visual arts, and the elements of resource and technology. These include hands-on, participatory experiences and observations – using all the senses, the recognition of patterns, as well as problem-solving and critical-thinking skills.

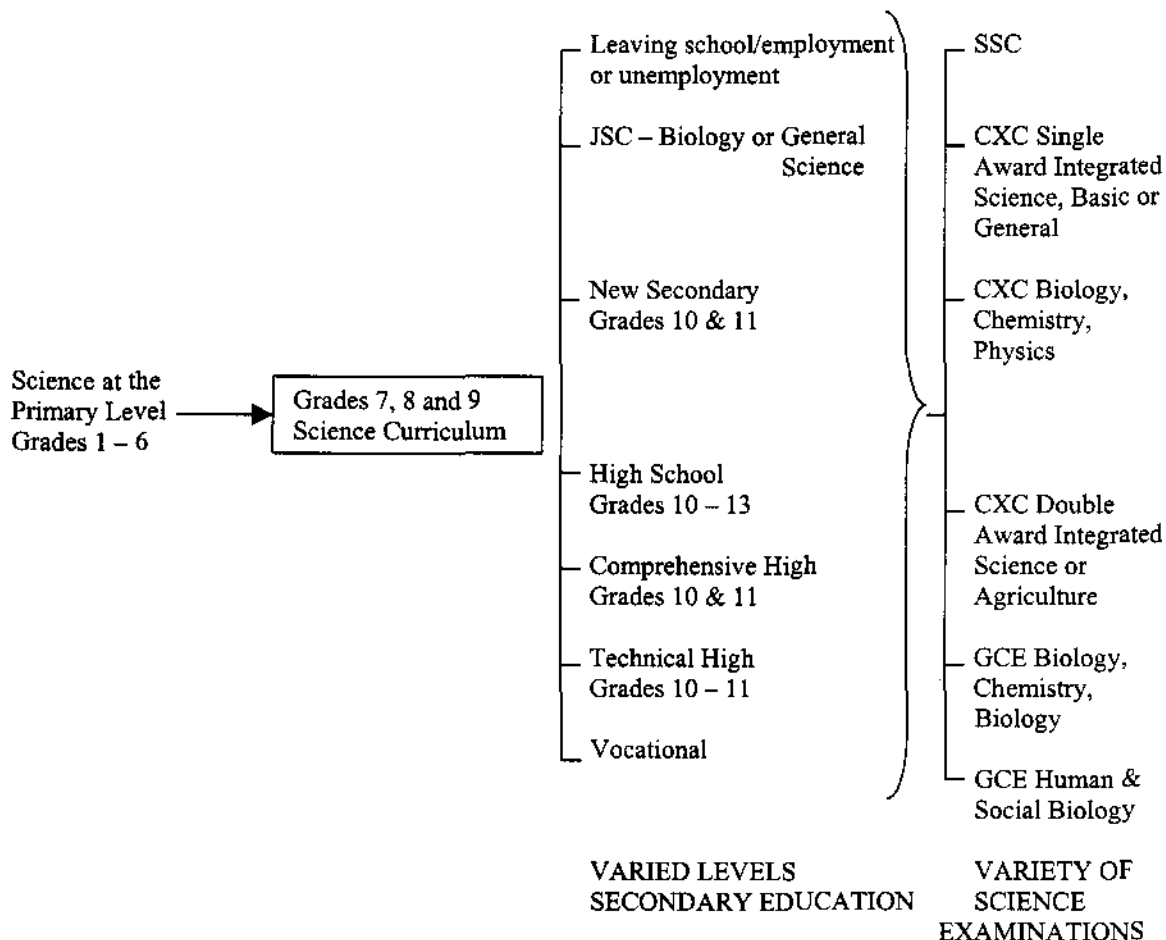
## AIMS OF THE SCIENCE CURRICULUM

The need to provide quality education, and equality of educational opportunities, to **all** secondary students, including those in the All-Age schools, is the basis for developing this Science Curriculum.

The Curriculum is intended to articulate between primary (Grade 6), and upper secondary (Grade 10 and above), as well as satisfy the wide range of academic abilities and literacy/numeracy skills among the Grades 7 to 9 students, in the various secondary institutions in our educational system.

The assumption that some students coming into the Grade 7 have **not** followed the Ministry’s Primary Level Science Curriculum, especially at Grades 4 to 6, has lead to the restating of many of the concepts and skills addressed in that curriculum. This Grade 7-9 Curriculum has also been written to ensure that the student leaving Grade 9 should have a sufficient scientific base to move into academic, vocational or any other chosen area which require basic science content and skills.

### Grades 7 – 9 Science Curriculum ‘In Context’



**AIMS OF THE SCIENCE CURRICULUM (continued)**

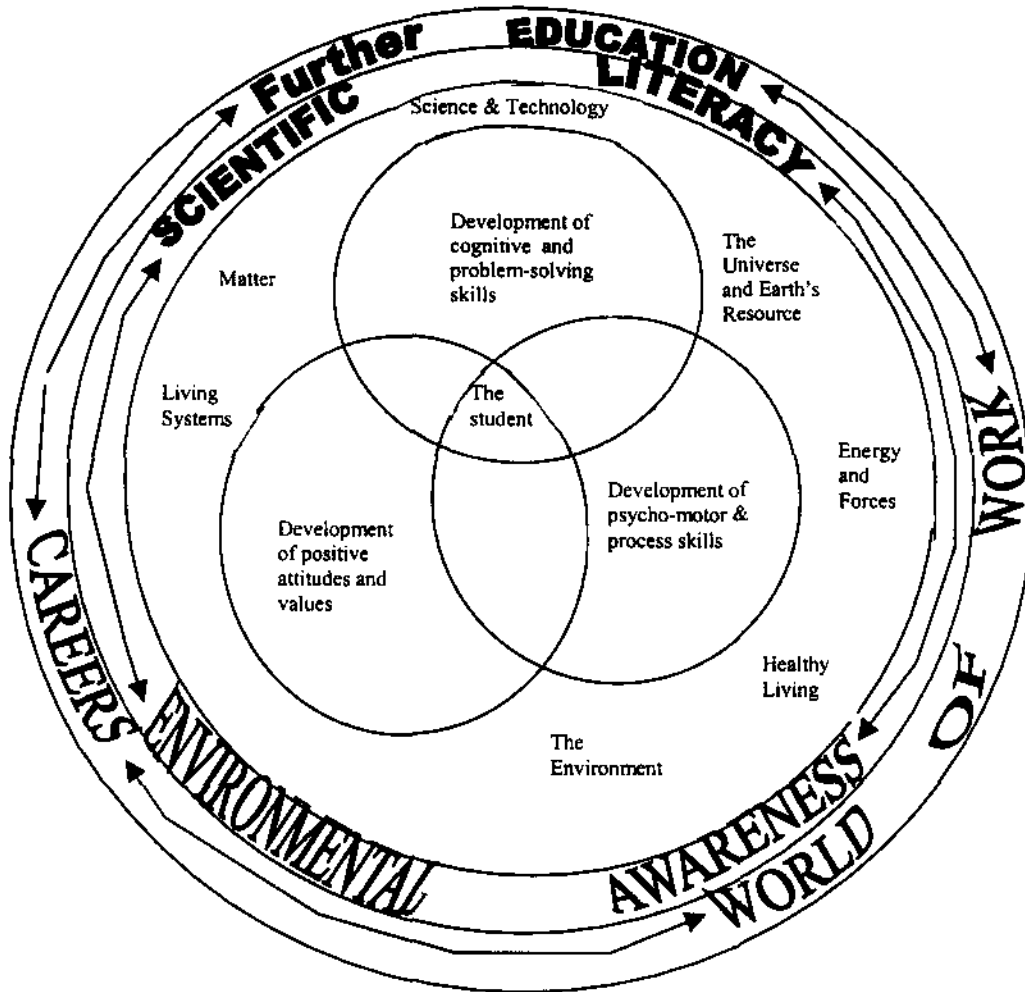
The Curriculum aims to have students:

1. Achieve scientific literacy by
  - (i) exploring the scientific approach in resolving problems
  - (ii) becoming conversant with the scientific meaning of familiar words in science, and
  - (iii) realizing that language skills are utilized in communicating scientific information
2. Develop critical thinking and process skills, by using teaching methodologies – including group work – which stress hands-on, minds-on activities, that encourage the development of these skills. These skills run across other subject areas.
3. Develop science and technology awareness by utilizing designing and model-building activities, which encourage the students to make/construct physical representations of scientific concepts.
4. See the importance of their individual roles in protecting the environment.
5. Develop an awareness of the wide range of career options available to people with scientific skills, and also the increasing need for scientific skills in our technology-oriented world.

It is expected that by exposure to this curriculum, the student should, at the end of Grade 9, be sufficiently prepared to select from a variety of career paths, to pursue further education, or to enter the field of work.

The diagram on the following page illustrates the perceived relationship between the themes (inputs) and aims (expected outcomes) of the curriculum.

# A General Perspective of the Grades 7 – 9 Science



## CURRICULUM GUIDE – SCIENCE SECTION

**CONTENT SUMMARY FOR GRADES 7-9 SCIENCE SYLLABUS**

<b>THEME 1</b>	<b>THEME 2</b>	<b>THEME 3</b>
<b>EXPLORING THE ENVIRONMENT</b>	<b>INVESTIGATING MATTER</b>	<b>LIVING SYSTEMS</b>
<b>UNIT 1 – Introduction to Science</b>	<b>UNIT 2 – Grouping Things</b>	<b>UNIT 3 – Living Things and how they reproduce</b>
1.1 Science In Everyday Life  1.2 Working Like a Scientist  1.3 Safety Precautions in Exploring the Environment  1.4 Using our Senses to Explore the Environment  1.5 Using instruments & Equipment to extend the use of our Senses	2.1 Why Group Things?  2.2 Grouping Things into Living & Non-Living  2.3 Grouping Living things into Plants and Animals  2.4 Grouping Plants  2.5 Grouping Animals  2.6 Grouping Non-Living Things into Solids, Liquids, Gases	3.1 Gross Structure & Function of the Flowering Plant  3.2 Structure & Function of Floral Parts  3.3 Sexual Reproduction in Flowing Plants  3.4 Reproduction without Seeds  3.5 Seed Structure & Germination  3.6 Sexual Maturity and Reproduction in Humans
<b>UNIT 7 – Water &amp; Living Things</b>	<b>UNIT 8 – Units Of Matter</b>	<b>UNIT 9 – Energy Flow Through Living Systems</b>
7.1 Water as a Major Component of Plants & Animals  7.2 Water as a Habitat  7.3 Living Things Need Water	8.1 The Particulate Nature of Matter  8.2 The Basic Unit of Living Things – The Cell  8.3 Body Systems	9.1 How Plants use Radiant Energy to make Food  9.2 Food Energy Chains and Webs  9.3 Food Intake, Digestion & Absorption in Animals  9.3 Energy Release through Respiration
<b>UNIT 13 – Sensing &amp; Responding to our Environment</b>	<b>UNIT 14 – More about Matter</b>	<b>UNIT 15 – Transport in Living Things</b>
13.1 The Sense Organs  13.2 The Central Nervous System  13.3 The Endocrine System	14.1 Pure & Impure Matter  14.2 Molecules and Ions  14.3 Physical & Chemical Changes  14.4 Elements, Mixtures & Compounds  14.5 Metals & Non-Metals  14.6 Acids, Bases & Salts	15.1 Transport Systems in Plants  15.2 Transport System in Animals  15.3 Diseases of the Circulatory System



CURRICULUM GUIDE – SCIENCE SECTION

**CONTENT SUMMARY FOR GRADES 7 – 9 SCIENCE SYLLABUS**

<b>THEME 4</b>	<b>THEME 5</b>	<b>THEME 6</b>
<b>HEALTHY LIVING</b>	<b>ENERGY AND LIFE</b>	<b>THE UNIVERSE &amp; THE EARTH'S RESOURCES</b>
<b>UNIT 4 – Responsible Living</b>	<b>UNIT 5 – Energy</b>	<b>UNIT 6 – Our Place in the Universe</b>
4.1 Sexually Transmitted Diseases  4.2 Drugs – Use and Abuse	5.1 Forms of Energy & energy Conversion  5.2 The Sun as the Ultimate Source of Energy  5.3 Fuels and their Uses in the Home, Community, Industry and Nation  5.4 Energy Conversion in the Home and Community	6.1 Our Place in the Universe  6.2 Earth and the Solar System
<b>UNIT 10 – Keeping Healthy</b>	<b>UNIT 11 – Energy in the Home</b>	<b>UNIT 12 – The Resources – Water and Air</b>
10.1 Food and Health  10.2 Cleanliness, Exercise, Rest and Health  10.3 Safety and Health	11.1 Heat Transfer  11.2 Investigating Static Electricity  11.3 Electricity in the Home  11.4 Electricity, Electronics and Magnetism  11.5 Safe use of heat and electricit	12.1 Sources of Water  12.2 Transport in Water and Air  12.3 Uses of Water  12.4 Gases in the Air  12.5 Water and Air Pollution
<b>UNIT 16 – Pregnancy and Health</b>	<b>UNIT 17 – Forces and Motion</b>	<b>UNIT 18 – More about the Earth's Resources</b>
16.1 Embryo Development and Birth  16.2 Pregnancy and Health  16.3 Birth Control Methods	17.1 Pushes and Pulls  17.2 Mechanical Movements in Land, Water and Air  17.3 Measuring Forces  17.4 Locomotion in Animals	18.1 Rocks and Minerals  18.2 Soils and soil conversion  18.3 Forest and Wildlife and their Conservation

**UNIT AIMS and GENERAL OBJECTIVES for GRADES 7 – 9**

**GRADE 7**

**Unit 1 Introduction to Science**

**Aims** This unit is designed to help students:

- (1) understand the meaning of science & technology
- (2) be aware that both the senses and instruments can be used to explore environment
- (3) appreciate the range and limitations of what can be observed with the senses only
- (4) be aware of the usefulness of working in a scientific manner in problem-solving
- (5) begin using the skills and thinking processes associated with the practice of science
- (6) understand that safety precautions are necessary in exploring the environment

**1.1 Science in Everyday Life**

General Objectives Students should be aware of what is involved in studying science, and how science and technology affects everyday life.

**1.2 Working like a Scientist**

General Objectives Students should:

- (1) appreciate the importance of scientific methods – the way in which scientists work.
- (2) be aware that scientific methods involve working in a systematic way.

**1.3 Safety Precautions in Exploring the Environment**

General Objectives Students should:

- (1) demonstrate a willingness to practise safe procedures, in order to take care of self and others
- (2) be aware of special procedures to be taken when using equipment and material to find out about the environment.

**1.4 Using our Senses to explore the Environment**

General Objectives Students should:

- (1) understand how the senses can be used to explore the environment
- (2) be aware of the value of the sense organs to humans and other animals

**1.5 Using instruments and Equipment to Extend the Use of the Senses**

General Objectives Students should:

- (1) appreciate that the human senses are limited in range and accuracy and so instruments are used to extend our powers of observation and measurement
- (2) understand the importance of measurement

## Unit 2            **Grouping Things**

**Aims** This unit seeks to help students:

- (1) appreciate the need to group or classify a wide variety of living and non-living things
- (2) realize that classification schemes are man-made and that the same things can be grouped in different ways
- (3) appreciate the need to show concern for both living and non-living things in studying the environment

### **2.1 Why Group Things?**

General Objectives Students should:

- (1) realize that the same objects can be grouped in different ways depending on the purpose
- (2) appreciate that grouping is an economical way of organizing objects

### **2.2 Grouping Things into Living and Non-living**

General Objectives Students should:

- (1) understand that all living things have a set of characteristics that are unique, which are used to distinguish them from non-living things
- (2) understand that there is need to show concern for the care and preservation of living and non-living things in our environment

### **2.3 Grouping Living things into Plants and Animals**

General Objectives Students should:

- (1) appreciate the wide variety of living things and how animals and plants differ
- (2) show concern for plants and animals in the environment

### **2.4 Grouping Plants**

General Objective Students should be aware of the wide variation of plants.

### **2.5 Grouping Animals**

General Objectives Students should be aware of the wide variation of animals.

### **2.6 Grouping Non-living Things into Solids, Liquids, Gases, including change – of-state**

General Objectives Students should:

- (1) understand that matter can be solid, liquid or gas
- (2) appreciate that the same substance can be a solid, a liquid or a gas depending on the temperature, for example, water (at particular pressures e.g. atmospheric).
- (3) appreciate that the stages in the water cycle demonstrates changes in the state of water.

### **Unit 3      Living things and How they Reproduce**

**Aims** This unit seeks to help students:

- (1) demonstrate knowledge of the gross structure in flowering plants.
- (2) understand the processes by which life is perpetuated (varied methods of reproduction)
- (3) appreciate the importance of plants to the environment and various sectors in the society.

#### **3.1      Gross Structure of Flowering Plant**

General Objectives Students should appreciate that all flowering plants have similar basic features

#### **3.2      Structure and Function of Floral Parts**

General Objectives Students should appreciate that each part of the flower has an important function

#### **3.3      Sexual reproduction in Flowering Plants**

General Objectives Students should:

- (1) appreciate why plants need to reproduce
- (2) understand the importance of flowers to flowering plants
- (3) be aware of the need to care for flowers
- (4) appreciate the importance of discontinuing the indiscriminate destruction of young fruits

#### **3.4      Reproduction without Seeds**

General Objectives Students should:

- (1) appreciate that plants can reproduce without seeds (vegetative reproduction)
- (2) appreciate that plants need care at all stages of their growth.

#### **3.5      Seed Structure and Germination**

General Objective Students should demonstrate an understanding of how plants result from the germination of seeds

#### **3.6      Sexual Maturity and Reproduction in Humans**

General Objectives Students should:

- (1) appreciate the significance of the changes that occur during growth, especially during adolescence
- (2) be aware of the structure and functions of the reproductive systems
- (3) appreciate that the characteristics that make an organism unique are determined by the make-up of the sperm (male cell/gamete) and the egg (female cell/gamete) from the parents.

#### **Unit 4 Responsible Living**

**Aims** this unit seeks to help students:

- (1) appreciate that lifestyles are important in determining their present and future health and happiness
- (2) be willing to discuss personal aspects of their lives in order to gain help in setting positive values and improving their interactions with others

##### **4.1 Sexually Transmitted Diseases**

General Objective Students should appreciate the contribution of responsible sexual behaviour to health and happiness.

##### **4.2 Drugs – Use and Abuse**

General Objective Students should appreciate that all drugs should be used only as prescribed and that some drugs can be harmful.

#### **Unit 5 Energy**

**Aims** This unit is designed to help students:

- (1) appreciate the importance of energy in everyday life
- (2) be aware of the various forms of energy and how they change from one form into another
- (3) appreciate how energy can be used and conserved
- (4) appreciate the importance of conservation of energy

##### **5.1 Forms of Energy and Energy Conversions**

General Objectives Students should:

- (1) know that there are different forms of energy and that one form can change into another
- (2) appreciate the world's dependence on various forms of energy for all activities
- (3) understand that energy is not 'used up' when a job is done or an appliance is used; it is just converted from one form into another

##### **5.2 The Sun as the Ultimate Source of Energy**

General Objective Students should appreciate that the sun is the ultimate source of energy on earth.

##### **5.3 Fuels and their Uses in Home, Community, Industry, Nation**

General Objective Students should appreciate that fuels 'release' energy when they are 'burned'.

##### **5.4 Energy Conservation in the Home and Community**

General Objective Students should appreciate the need to conserve energy in the home.

**Unit 6      Our Place in the Universe**

**Aims** This unit seeks to help students appreciate the place of the Earth in the universe.

**6.1      Overview of the Universe**

General Objectives      Students should appreciate the vastness of the universe.

**6.2      Earth and the Solar System**

General Objectives      Students should be aware of the position of the Earth in the Solar System.

**GRADE 8**

**Unit 7      Water and Living Things**

**Aim** This unit seeks to develop in students an appreciation of the importance of water for life

**7.1      Water as a Major Component of Plants and Animals**

General Objectives Students should:

- (1) understand that the major components of the structure of plants and animals is water
- (2) appreciate the importance of water to living things
- (3) develop a positive attitude to the use of water in everyday life

**7.2      Water as Habitat**

General Objective Students should know that the properties of water make it a suitable home for a variety of plants and animals.

**7.3      Living Things need Water**

General Objectives Students should understand that the nature of water as a fluid makes it a suitable medium for transporting substances through the bodies of living things.

**Unit 8      Units of Matter**

**Aims** This unit seeks to help students to:

- (1) appreciate that all living and non-living things are made of Units of Matter.
- (2) be aware that the structure of these units determine the characteristics of living and non-living things.

**8.1      The Particulate Nature of Matter**

General Objectives Students should appreciate that all things are made up of very small particles combined in different ways.

**8.2      The Basic Unit of Living Things - the Cell**

General Objectives Students should:

- (1) know that the cell is the basic structure and functional unit of all living things
- (2) be aware that the main difference between living and non-living things is that the basic unit of the living thing has a control centre which allows it to duplicate itself and respond to changes in the environment; while in a non-living system there is no such control and duplicating mechanism.

### 8.3 Body Systems

General Objectives Students should know that cells, tissues, organs and systems form an integrated hierarchical pattern in plants and animals.

### Unit 9 Energy Flow through Living Systems

**Aims** This unit is designed to help students:

- (1) understand that energy from the sun sustains life on earth.
- (2) demonstrate an appreciation of the interdependence of plants and animals.
- (3) understand that energy is ultimately released in cells for use by the organism.

#### 9.1 How Plants use Radiant Energy to Make Food

General Objectives Students should understand that plants use radiant energy in making food containing chemical energy.

#### 9.2 Food and Energy Chains and Webs

General Objectives Students should:

- (1) know that plants are the only organisms that can use the sun's energy directly (to make food).
- (2) understand that animals depend on plants for their energy supply.

#### 9.3 Food Intake, Digestion and Absorption in animals

General Objectives Students should understand that the food which animals eat goes through a number of processes before reaching the cells and the energy from the food is utilized by the cells.

#### 9.4 Energy Release through Perspiration

General Objectives Students should:

- (1) know that respiration is the process by which the cell obtains energy from food.
- (2) appreciate that energy is lost as it flows through any system.

### Unit 10 Keeping Healthy

**Aim** This unit is designed to help students appreciate that the individual is responsible for maintaining a healthy body.

#### 10.1 Food and Health

General Objectives Students should be aware of the importance of a balanced diet.

#### 10.2 Food Tests

General Objectives Students should be aware of simple tests for identifying the nutrients in food substances.



**10.3 Cleanliness, Exercise, Rest and Health**

General Objective Students should be aware of the importance of cleanliness, exercise and rest in maintaining good health.

**10.4 Safety and Health**

General Objective Students should be aware of simple first-aid measures and have a working knowledge of each procedure.

**Unit 11 Energy in the Home**

**Aim** This unit seeks to develop in students an awareness of the use of energy in the home, and the safety measures to follow when using heat and electrical energy

**11.1 Heat Transfer**

General Objective Students should understand that heat is transferred in one or more ways, and this is used by a number of appliances in the home e.g. fan, refrigerator, air-conditioner, stove.

**11.2 Investigating Static Electricity**

General Objectives Students should:  
(1) develop an awareness of the presence of static electricity  
(2) demonstrate an understanding of static electricity

**11.3 Electricity in the Home**

General Objective Students should appreciate that electricity is the main energy source for most homes in Jamaica and world-wide.

**11.4 Electricity, Electronics and Magnetism**

General Objectives Students should:  
(1) be aware of the applications of electronics in everyday life  
(2) have a simple qualitative understanding of magnets and their effects  
(3) be familiar with some electro-magnetic devices

**11.5 Safe Use of Heat and Electricity**

General Objectives Students should:  
(1) appreciate that the energy conversions from electricity, for many appliances, produce heat as a product or by-product  
(2) understand the potential hazards when working with electricity  
(3) be aware that using appliances require knowledge of safety precautions that must always be practised

**Unit 12      The Resources – Water and Air**

**Aim**    Students should appreciate that water and air are two resources of the earth.

**12.1    Sources of Water**

General Objective    Students should know that water comes from a number of sources, above and below ground.

**12.2    Uses of water and air**

General Objectives    Students should demonstrate awareness of:

- (1) the uses of water as a solvent
- (2) the uses of water and air as sources of energy
- (3) the use of water in the agricultural industry

**12.3    Gases in the Air**

General Objectives    Students should understand that:

- (1) the component gases of air can be utilized for a variety of purposes
- (2) the components of air are constantly being replenished in a cycle

**12.4    Conservation of Water**

General Objective    Students should be aware that water should be conserved.

**12.5    Water and Air Pollution**

General Objective    Students should be aware that man’s activities can lead to pollution of water and air.

**GRADE 9**

**Unit 13 Sensing and Responding to Our Environment**

**Aim** This unit seeks to develop in students an awareness of the structures and functions of body systems, that help us to sense and respond to our environment.

**13.1 Sense Organs**

General Objectives Students should:

- (1) appreciate the importance of sense organs in making us aware of our environment
- (2) be aware of the needs of persons who have lost one or more sense organs
- (3) develop a positive attitude to challenged persons.

**13.2 Central Nervous System**

General Objectives Students should understand the role of the Central Nervous System (CNS) in coordinating the body's response to the environment.

**13.3 Endocrine System**

General Objectives Students should be aware that the endocrine system regulates the body's response to the environment.

**Unit 14 More about Matter**

**Aims** This unit seeks to help students:

- (1) be aware that atoms, molecules and ions, are the basic unit of all substances.
- (2) appreciate that substances are combinations of elements in mixtures of compounds.

**14.1 Pure and Impure Matter**

General Objectives Students should understand that all matter may be classified as pure or impure.

**14.2 Atoms, Molecules and Ions**

General Objectives Students should:

- (1) understand that the basic particles of substances are either atoms, molecules or ions.
- (2) know that molecules are formed from the combination of atoms or ions.

**14.3 Physical and Chemical Changes**

General Objective Students should be aware that physical changes are easily reversed, while chemical changes are not.

#### **14.4 Elements, Mixtures and Compounds**

General Objectives Students should:

- (1) appreciate that pure substances rarely exist in nature.
- (2) know that substances are either elements, mixtures or compounds.
- (3) know that elements are made up of one type of atom, while compounds are made up of atoms or ions of different types.
- (4) know that chemical symbols are used to represent one atom of an element.

#### **14.5 Metals and Non-metals**

General Objectives Students should appreciate that elements behave differently, because of their being metals or non-metals.

#### **14.6 Acids, Bases and Salts**

General Objectives Students should:

- (1) appreciate that many chemicals found in the home are composed of a variety of elements.
- (2) be aware that many household chemicals can be classified as acids, alkalis or neutral substances.

### **Unit 15 Transport in Living Things**

**Aim** This unit is designed to help students understand that within a complex organism, a transport system is needed to carry materials to and from the innermost cells.

#### **15.1 Transport System in Plants**

General Objectives Students should understand the importance of a transport system in plants.

#### **15.2 Transport Systems in Animals**

General Objectives Students should understand the structure of blood, and how it functions as a transport medium.

#### **15.3 Diseases of the Circulatory System**

General Objective Students should appreciate that the individual has a role to play in reducing the likelihood of some problems of the circulatory system.

### **Unit 16 Pregnancy and Health**

**Aim** This unit seeks to help students appreciate the importance of the mother maintaining a healthy lifestyle during pregnancy.

#### **16.1 Embryo Development and Birth**

General Objectives Students should:

- (1) realize that all the needs of the developing embryo are supplied by the female parent.

- (2) appreciate that the characteristics which make an organism unique are determined by the make-up of the male cell and the female cell from the parents.
- (3) be aware of the process of childbirth.

### **16.2 A Healthy Pregnancy**

General Objective Students should appreciate that what a pregnant woman eats, and how she behaves in relation to drugs, alcohol and smoking, can affect her developing child.

### **16.3 Birth Control Methods**

General Objectives Students should:

- (1) appreciate that they need to react in a responsible way to their own emotional and sexual development, and develop positive values in their interactions with others
- (2) appreciate that pregnancy can have certain harmful effects on the female if she is too young (not having become fully grown herself), or if the pregnancies are too close together (using up resources, tiredness, etc.)

## **Unit 17 Forces and Motion**

**Aim** This unit is designed to help students become aware of ways in which forces and motion act in everyday life.

### **17.1 Pushes and Pulls**

General Objectives Students should:

- (1) understand that a force is either a 'push' or a 'pull' (or a 'twist')
- (2) know that pushes and pulls (forces) change the shape of objects, and the state of motion of objects

### **17.2 Mechanical Movements in Land, Water, Air**

General Objectives Students should:

- (1) understand that movement results from unbalanced forces
- (2) understand ways in which forces can be used to control motion

### **17.3 Measuring Forces**

General Objective Students should be aware that forces can be quantified.

### **17.4 Locomotion in Animals**

General Objective Students should appreciate that animals can move from place to place.

**Unit 18      More about the Earth's Resources**

**Aim** This unit seeks to help students realize that only some of the earth's resources are renewable and that humans have the responsibility to use the earth's resources wisely.

**18.1    Rocks and Minerals**

General Objectives Students should be able to:

- (1) list a number of ways in which rocks and minerals serve man's purposes
- (2) explain why rocks and minerals are non-renewable
- (3) explain why rocks and minerals should be conserved (because they exist in finite quantities)

**18.2    Soil and Soil Conservation**

General Objectives Students should:

- (1) understand that soils are important natural resources
- (2) be aware of the importance of conserving soil

**18.3    Forests and Wildlife and their Conservation**

General Objectives Students should:

- (1) understand that forests and wildlife are resources of the earth
- (2) appreciate that conservation of forests and wildlife helps to maintain the balance of nature

**GOVERNMENT OF JAMAICA/ WORLD BANK  
REFORM OF SECONDARY EDUCATION  
(R.O.S.E)**

***CURRICULUM GUIDE***

***SOCIAL STUDIES***

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Kingston, Jamaica  
December, 1998

## ACKNOWLEDGEMENTS

We would like to acknowledge the contributions made by the following people in the initiation, planning and preparation of this document.

- Mrs. Lola Williams, former ACEO Core Curriculum, who facilitated the whole curriculum development process.
- Dr. Ruby King, U.W.I., who developed the plan for compiling the Social Studies Curriculum.
- Dr. Audrey Aarons, International Consultant (Curriculum), who guided the consultants and Education Officers through the initial stages of the curriculum development process.
- Mrs. Janet Johnson, former Educator World Bank IV Project.
- Teachers in the pilot schools in St. Thomas, who, by their involvement in workshops and discussion in the schools, helped in the shaping of the curriculum.
- The wider group of teachers from all school types across the island, teacher trainers from the Colleges and CXC panel members, who attended workshops and assisted in identifying topics and their placement in the Curriculum, as well as activities that could be used.
- Ministry of Education Officers in the Core Curriculum Unit, Mrs. Adele Brown, Mrs. Marjorie Vassell, Mrs. Laurel Nembhard and Miss Cherry Davis.
- The Administrative staff of the World Bank IV Project, the Core Curriculum Unit and EDC local office, who have assisted members of the Social Studies Team in the preparation of material.
- **Local Consultants**<sup>\*</sup>  
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Mrs. Norma Bernard-Powell, Tarrant Secondary School  
Mrs. Diane Browne, West Indies Publishing  
Mrs. Norma Fisher, Mico Teachers' College

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\* Under contract to the Education Development Centre, Inc., Newton, Massachusetts, U.S.A.

† Under contract to International Education Consultants Ltd., Kingston, Jamaica



## ACKNOWLEDGEMENTS (cont'd)

Mrs. Cynthia Lumsden, St. Hugh's High School

Mrs. Pearline Smythe-Gabbidon, Buff Bay Secondary School

- **Final Review – Officers in the Social Studies Section**

Mrs. Laurel Nembhard

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## **Curriculum Guide – Social Studies**

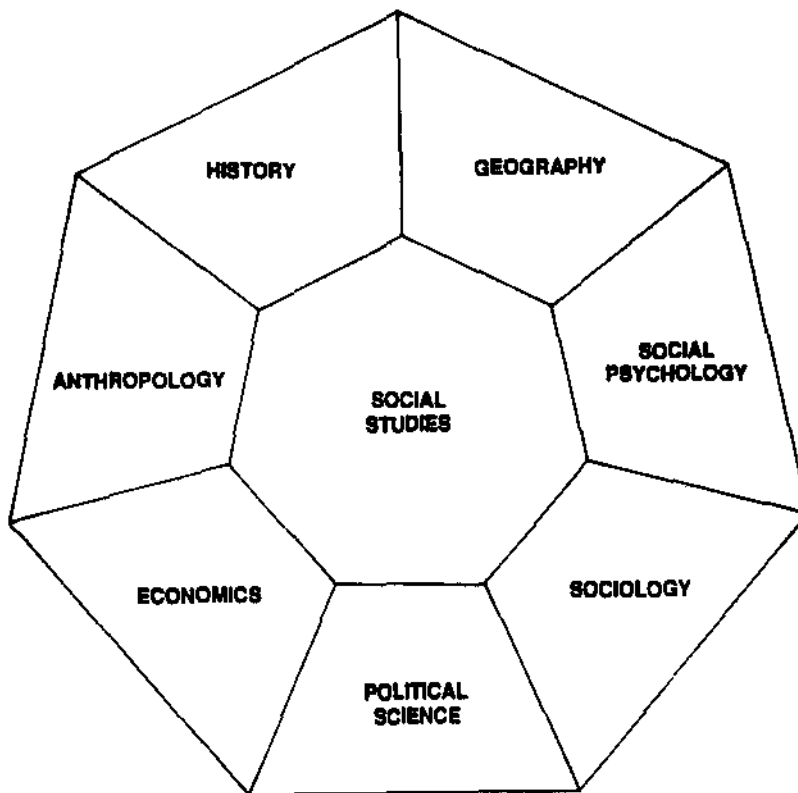
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## PHILOSOPHY OF SOCIAL STUDIES

Social Studies is primarily concerned with the study of people, their activities and relationships, as they interact with one another and with their physical and socio-cultural environment in an effort to meet their needs (to live and to make a living). It is essentially the study of human group experiences.

Social Studies is inter/multi-disciplinary in nature and draws its subject matter from a variety of Social Science disciplines – History, Geography, Political Science, Economics, Sociology, Anthropology and Social Psychology as illustrated in the diagram.



Social Studies programmes provide experiences through which students are expected to gain knowledge and insights, develop and practise a variety of skills and attitudes as well as human understanding and social responsibility

## CURRICULUM GUIDE - SOCIAL STUDIES

Social Studies lessons help students to explain human experiences in the past and present and develop in them the ability to anticipate and prepare for the experiences of the future, to make sense out of the world as they find it and build better worlds than they do find. Above all Social Studies (lessons should) help pupils to feel valued and valuable.

The subject content may be organized around ( any of the following:) concepts, ideas, generalization, themes, problems, topics, or geographical areas. This programme, designed for Grades 7-9 Jamaican students, incorporates a variety of these organizational approaches.

The following themes concepts and social issues give unity to the whole programme

THEMES	CONCEPTS	SOCIAL ISSUES
Living together	Interdependence	Environmental concerns
Working together	Change	Substance Abuse
Growing together	Conflict	Population
	Culture	Health
	Identity	Human Rights
	democracy	

These themes concepts and issues must be explored as students learn about themselves and other Societies.

Equally important is the set of skills which can be transferred to new situation. These skills include basic communication skills, map and graphic skills, thinking skills, valuing skills and social participation skills.

As a way of acquiring the knowledge and skills, students need to be exposed to a set of critical learning experiences. They must read, write and dramatize, analyze, organize and, as much as possible, experience the curriculum first hand.

Social Studies is the vanguard in the development of positive attitudes and values. These attitudes are difficult to assess but are essential to the development of the student. Thus the Social Studies classroom and the learning experiences provided therein must create the atmosphere in which these can flourish. It is hoped that as a result of personal inquiry and free choice, students will come to believe and act upon the core values (such as) human dignity, honesty, equality, cooperation, self worth, national pride and self discipline, and as such develop into responsible citizens.

## RATIONALE

Social Studies education has as its goal the preparation of students to make, and act on rational decisions, both as individuals and as group members. These decisions should be based on knowledge and on personal values that have been systematically explored and clarified.

Since a large percentage of students in the Grades 7-9 age cohort will not proceed beyond Grade 9, but will nevertheless be performing the roles of parents, citizens, workers and consumers, the Social Studies curriculum for the group must address this reality. For others the Social Studies programme will provide the groundwork for the further study of History, Geography and Social Studies in Grade 10.

The Grades 7-9 students have some positive traits and characteristics which should be harnessed in promoting their educational development. They are curious, imaginative, sensitive and creative. The curriculum will accommodate these and other social and psychological characteristics manifested by our children.

The wide range of achievement levels creates the need for a variety of teaching methodologies, materials and activities to match the needs and characteristics of the students. This must mean the engagement of innovative teaching strategies, the production and use of learning resources to provide personal relevance, to empower the students and to make them more effective and efficient.

Education for informed decision-making and responsible social action is especially critical for students in Jamaica. We are a developing country undergoing rapid technological changes and economic difficulties which impact negatively and positively on the people and on the environment in which they live. Unevenness in income distribution and persistent poverty have led to an increased emphasis on economic survival on the one hand, and on the acquisition of material goods on the other.

In pursuit of these, the people have become geographically mobile, politically conscious and entrepreneurial in finding alternative economic activities. The Social Studies curriculum should play its part in developing entrepreneurial skills and geographical knowledge as well as a commitment to community and national development.

The schools of the 1990s are preparing adults for the year 2000 and beyond. It is not enough to teach students answers to yesterday's or even today's problems; we must teach them to resolve problems – the process of decision making and civic action – so that they can cope with the present, shape the future, and in so doing minimize the shock of rapid change.

In addition to all this, Social Studies offers young people the opportunity to recognize the significance of their experiences as they seek to understand more about themselves, and to become more aware of the complex social relationships of which they are a part. Social Studies programmes, if taught well should create for students a necessary bridge between school and society.

**SUMMARY OF CONTENT**

The content of the Social Studies curriculum is developed around three themes: Living Together (Grade 7), Working Together (Grade 8), Growing Together (Grade 9). Topics and sub-topics have been carefully selected to facilitate the investigation of the themes. This summary/outline lists the topics to be explored in studying each of the themes.

**Grade 7**

**Overall Theme: Living Together**

- Topics and Sub-topics:**
1. **Our People**
    - A. Our Motto
    - B. Our Heroes
    - C. Our Ancestors
    - D. Our Cultural Heritage
  2. **Living Together in Groups**
    - A. Society, Social Groups and Institutions
    - B. Primary Groups
    - C. Secondary Groups
  3. **Social and Environmental Issues**
    - A. Good Health Practices
    - B. Sexually Transmitted Diseases
    - C. Substance Abuse
    - D. Child Abuse
    - E. The Rights of the Child

**Grade 8**

**Overall Theme: Working Together**

- Topics and Sub-topics:**
1. **Jamaica: Physical Resources**
    - A. Location, Size Relief
    - B. Climate and Vegetation
  2. **Jamaica: Human Resources**
    - A. Population
  3. **Using Our Resources and Related Environmental Matters**
    - A. Farming
    - B. Fishing
    - C. Mining and Manufacturing
    - D. Tourism

4. **Moving Goods and People**
  - A. Jamaica's Internal Transportation
  - B. Jamaica's Regional and International Links
5. **Social Issues**
  - A. Employers and Employees: Rights and Responsibilities

**Grade 9**

**Overall Theme:**

**Growing Together**

**Topics and Sub-topics:**

1. **Earning a Living**
  - A. Why People Work
  - B. Occupations in Jamaica
  - C. Investigating Jobs in Jamaica
2. **Consumer Affairs**
  - A. Consumer and Consumption
  - B. Good Consumer Practices
  - C. Consumer Protection
3. **Nation Building**
  - A. Government
  - B. People's Rights and Responsibilities and Consequences Related to Violations of Such Rights
  - C. Nation Builders
  - D. Life and Work of Marcus Garvey
4. **Regional and Global Relations**
  - A. World Government
  - B. Trade Agreements and Regional Co-operation
5. **Human Relations**
  - A. Population: Growth and Expansion
  - B. Food Supply



## **SCOPE AND SEQUENCE**

### **GRADES 7-9**

The **Scope and Sequence** is intended to facilitate the teaching/learning process and sets out in careful sequence, the contents of the Social Studies curriculum.

For each Grade level, the content is divided into Units of study on a termly basis. The topics and sub-topics to be covered in a Unit are clearly stated and so, too, are the expected learning outcomes - the knowledge to be gained as well as the concepts, skills and attitudes to be developed.

Additionally, help is offered to the teacher, in identifying possibilities for integrating Social Studies with other subjects in the wider curriculum.

**SCOPE AND**

**Grade 7  
Term 1**

**Theme  
Unit 1:  
Sub-Topic: A:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
Origin of the Motto and Coat of Arms Reasons for Motto Uses of the Motto Meaning of the Motto People and the Motto	Describe the Coat of Arms. Explain what the Motto means. Give examples of behaviour: consistent with the Motto inconsistent with the Motto. Suggest reasons why countries have mottoes. Suggest ways of improving relations between Jamaicans of different ethnic backgrounds.	motto ethnic group patriotism Jamaican stereotype prejudice one people logo indigenous loyalty

**Sub-Topic B:  
Organizing Concepts:**

Who is a hero/heroine? Who is a National Hero? The National Heroes and their contribution to national life. Life of the hero/heroine Heroes/heroines in community	Define and use concepts correctly. List characteristics of heroes/heroines. Identify heroes/heroines in their community/parish and describe their contribution to the development of the community parish. Describe the qualities of our National Heroes. Identify the relationship between heroes/heroines and nation-building.	Hero/Heroine National Hero Bravery Leader Nation builder
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**SEQUENCE**

**Living Together  
Our People  
Our National Motto  
change, conflict, culture, identity**

SKILLS	ATTITUDES	POSSIBLE INTEGRATION
Draw cartoons / sketches. Work in small groups. Draw Coat of Arms. Read and analyse poetry. Participate in class discussion Make rational individual decisions.	Show respect for one another irrespective of racial/ethnic differences. Co-operate in groups Complete tasks and homework. Develop a sense of pride in being Jamaican. Develop an appreciation of History as an important guide for the future.	Language Arts Resource and Technology

**Our Heroes  
change, conflict, culture, identity**

Locate places. Write poems and songs. Interview resource persons. Answer questions precisely. Distinguish between fact and opinion Detect cause and effect relationships. Make generalizations. Form concepts. Identify values. Make moral judgments. Prepare and write summaries. Place dates in chronological order.	Show respect for heroes/heroines and their work. Participate in class discussion Cooperate in groups to complete tasks assigned Listen attentively and critically to discussions, tape recordings and oral reports. Appreciate the importance of historical monuments and public property.	Language Arts Religious Education Resource & Technology
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**SCOPE AND**

**Grade 7  
Term 1**

**Theme  
Unit 1:  
Sub-Topic: C:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>Arawaks</p> <p>Spaniards</p> <p>Jews</p> <p>English</p> <p>Chinese</p> <p>Syrians/Lebanese</p> <p>Africans</p> <p>East Indians</p> <p>Push and pull factors</p> <p>Places and parishes where the various groups settled</p> <p>How each group satisfied basic needs</p>	<p>Define and use concepts correctly.</p> <p>List racial/ethnic groups to which our ancestors belonged.</p> <p>Locate and name the countries from which the ancestors came.</p> <p>Describe the way of life of our ancestors in their country of origin.</p> <p>Explain how the ancestors depended on the environment to satisfy their needs.</p> <p>Identify push &amp; pull factors which operated with each group of ancestors</p>	<p>Ancestors</p> <p>Descendant</p> <p>Immigrant</p> <p>Ethnic group</p> <p>Emigrant</p> <p>Artifact</p> <p>Push factors</p>

**SEQUENCE**

**Living Together  
Our People  
Our Ancestors  
change, conflict, culture, identity**

SKILLS	ATTITUDES	POSSIBLE INTEGRATION
<p>Locate places on maps.</p> <p>Trace routes on maps.</p> <p>Listen to and ask questions of resource persons.</p> <p>Dramatise, events</p> <p>Make dolls.</p> <p>Complete a time line.</p> <p>Arrange a table in chronological order.</p> <p>Participate in class discussions.</p> <p>Make oral and written summaries and reports.</p> <p>Analyse data in various forms.</p> <p>Differentiate between fact and opinion.</p>	<p>Accept their physical appearance as beautiful irrespective of their racial/ethnic origins.</p> <p>Show respect for people of different racial/ethnic backgrounds.</p> <p>Recognize that we need to know our history in order to know ourselves.</p> <p>Show tolerance for people of different racial/ethnic backgrounds.</p> <p>Appreciate the value of human life.</p> <p>Show commitment to improving relations among Jamaicans.</p>	<p>Language Arts</p> <p>Music</p> <p>Resource &amp; Technology</p> <p>Religious Education</p>

**SCOPE AND**

**Grade 7  
Term 1**

**Theme  
Unit 1:  
Sub-Topic: D:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
Dress Dance Music Drama Speech Food Folklore Folk medicine Festivals and celebrations Religion National symbols Preserving our culture place names	Define and use concepts correctly.  List characteristics of heroes/heroines.  Identify heroes/heroines in their community/parish and describe their contribution to the development of the community /parish.  Describe the qualities of our National Heroes.  Identify the relationship between heroes/heroines and nation-building.	Hero/Heroine National Hero  Bravery  Leader  Nation builder

**SEQUENCE**

**Living Together  
Our People  
Our Cultural Heritage  
change, conflict, culture, identity**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Make sketches.</p> <p>Write skits/short essays.</p> <p>Tell stories, riddles, proverbs.</p> <p>Analyse data.</p> <p>Do research</p> <p>Draw national symbols</p> <p>Form concepts and make generalizations.</p> <p>Provide evidence to support a value judgement.</p> <p>Make models.</p> <p>Interpret maps, pictures, diagrams, tables.</p> <p>Analyse popular songs/poems which describe aspects of our culture.</p> <p>Make notes and summaries.</p>	<p>Show appreciation for the contribution of each group to our cultural heritage.</p> <p>Appreciate the importance of preserving our culture while remaining open to changes.</p> <p>Recognize and respect cultural differences and minority rights.</p> <p>Demonstrate industry, punctuality and self discipline.</p> <p>Realize that folk medicine provided a base for modern medicine.</p> <p>Demonstrate a willingness to work in groups.</p>	<p>Language Arts</p> <p>Resource &amp; Technology,</p> <p>Music</p> <p>Religious Education</p> <p>Science.</p>

## SCOPE AND

**Grade 7**  
**Term 1**

**Theme**  
**Unit 2:**  
**Sub-Topic: A:**  
**Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Society, social groups, institutions, roles, norms, culture</p> <p>Characteristics of groups</p> <p>Roles of individuals and leaders of a group.</p> <p>Culture and what it is</p> <p>Influence of culture on behaviour</p>	<p>Define and use concepts correctly.</p> <p>Give examples and non-examples of the concepts.</p> <p>Explain why people join groups.</p> <p>List the characteristics of institutions.</p> <p>List various groups to which students belong.</p> <p>Describe their roles in various groups.</p> <p>Describe or list qualities of a group leader.</p>	<p>Society</p> <p>Social groups</p> <p>Institutions</p> <p>Norms</p> <p>Roles</p> <p>Interaction</p> <p>Values</p> <p>Culture</p>



**SEQUENCE**

**Living Together**  
**Living Together in Groups**  
**Society, Social Groups and Institutions**  
**change, conflict, culture, identity and inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Read resource materials.</p> <p>Analyse case studies</p> <p>Summarize main ideas.</p> <p>Classify groups.</p> <p>Make a role chart</p> <p>Prepare and use a role checklist</p> <p>Make generalizations.</p> <p>Construct a bar graph.</p> <p>Locate places on a map.</p> <p>Conduct an interview.</p> <p>Detect cause and effect.</p>	<p>Develop an awareness of the importance of groups in everyday life.</p> <p>Recognize the influence of culture on behaviour.</p> <p>Realize that values do conflict</p> <p>Accept cultural differences.</p> <p>See themselves as important members of society.</p> <p>Appreciate that interdependence is necessary for human group survival.</p>	<p>Language Arts</p> <p>Maths</p>

**Grade 7  
Term 1**

**Theme  
Unit 2:  
Sub-Topic: B:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>The Family</p> <p>Peer Group</p> <p>Types of families and peer groups</p> <p>Functions and roles of members within groups</p> <p>Factors which influence changing roles and functions</p> <p>Family problems and the solutions</p> <p>Peer pressure and its influence on behaviour</p>	<p>Classify families according to types.</p> <p>List and explain the functions of the family</p> <p>Explain how culture influences types of families and roles of family members. in Jamaica and elsewhere</p> <p>State examples of peer groups and describe roles of members</p> <p>Identify changes in role of family over time</p> <p>Identify and discuss the factors which have led to the changing role of family members.</p> <p>List some family problems and suggest ways of solving them.</p> <p>Explain peer pressure and its influence on behaviour</p>	<p>Primary group</p> <p>Family,</p> <p>Peer group,</p> <p>Family tree</p> <p>Socialization</p> <p>Generation</p> <p>Peer pressure</p> <p>Gang</p> <p>Generation gap</p> <p>Peer counseling</p> <p>Rules</p> <p>Sanctions</p>

**SEQUENCE**

**Living Together**

**Living Together in Groups**

**Primary groups**

**change, conflict, culture, inter-dependence, identity**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
Make generalization.	Participate in class discussion willingly	Language Arts
Draw family tree.		Resource and Technology,
Dramatize group situations.	Work independently during a test	Art & Craft and Home Economics
Analyse graphic materials and pictures.	Recognize themselves as unique with a contribution to make to society	Physical Education.
Make models.		
Discuss information	Defend their value position.	
Locate places on World Map	Like themselves and appreciate their talents and abilities	
Identify choices in problem solving.	Show a willingness to love, respect and cooperate with family members.	
Draw conclusion.		
Ask and answer questions.	Appreciate the importance of rules in maintaining order and stability in society.	
Make comparisons.		

**Grade 7  
Term I**

**Theme  
Unit 2:  
Sub-Topic: C:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>School</p> <p>Church</p> <p>Clubs</p> <p>Community</p> <p>Characteristics of these groups</p> <p>Functions of groups and role of members</p> <p>Historical development of the groups</p> <p>Group structures and their contribution to the society</p>	<p>List the characteristics of secondary groups.</p> <p>Give examples of secondary groups.</p> <p>List the characteristics of institutions.</p> <p>Explain the functions of these groups in the society.</p> <p>Outline the historical development of their community.</p> <p>Describe the ways in which community members are inter-dependent.</p>	<p>Secondary group</p> <p>Rules</p> <p>Sanctions</p> <p>Voluntary membership</p> <p>Involuntary membership</p> <p>Community</p> <p>Club</p> <p>Church</p> <p>School</p>

**SEQUENCE**

**Living Together**  
**Living Together in Groups**  
**Secondary groups**  
**identity, change, culture, conflict, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Draw an organizational chart.</p> <p>Interview resource persons.</p> <p>Organize data in graphs, tables and charts.</p> <p>Locate places on a community map.</p> <p>Write interview schedule.</p> <p>Make comparisons.</p>	<p>Listen attentively and critically to presentations from classmates, teachers and resource persons.</p> <p>Complete assigned tasks for group project.</p> <p>Choose group leader in a democratic way.</p> <p>Obey the instruction given by group leader.</p> <p>Cooperate with classmates to complete a project.</p> <p>Show politeness to each other and to the people they meet on a field trip.</p>	<p>Language Arts</p> <p>Maths</p> <p>Religious Education</p>

**SCOPE AND**

**Grade 7  
Term III**

**Theme  
Unit 3:  
Sub-Topic: A:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Importance of keeping healthy</p> <p>The role of government in helping to keep people healthy</p> <p>The role of the media in promoting good and bad health practices</p> <p>Role of international organizations in our health care programme Common health problems</p> <p>Factors affecting good health practices</p> <p>Workers in the health sector</p> <p>Attitudes to and provisions for the mentally and physically challenged in our society</p>	<p>Define and use the following concepts:</p> <p>Balanced diet, famine, malnutrition, immunization, curative medicine, preventative medicine etc.</p> <p>List 5 good health practices.</p> <p>Identify and discuss the factors which prevent individuals from maintaining good health practices.</p> <p>Identify and explain the relationship between good health practices and the social and economic development of the country.</p> <p>Explain how culture and other factors can lead to unhealthy practices.</p> <p>List the workers in the health sector who help to keep the people in their community /parish healthy and describe their role.</p> <p>Describe the role of government and international organizations in community health.</p>	<p>Good health practices</p> <p>Balanced diet</p> <p>Malnutrition</p> <p>Famine</p> <p>Immunization</p> <p>Preventative health care</p> <p>Curative medicine</p> <p>Nutrition</p> <p>Food groups</p> <p>Hygiene</p> <p>Mentally/Physically challenged</p>

**SEQUENCE**

**Living Together**  
**Social and Environmental Issues**  
**Good Health Practices**  
**change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Complete a table.</p> <p>Locate places on maps.</p> <p>Participate in class discussions</p> <p>Analyse pictures, photographs and cartoons and graphic data.</p> <p>Work in small groups.</p> <p>Evaluate advertisements.</p> <p>Detect cause and effect relationship.</p> <p>Research topics.</p> <p>Write an interview schedule.</p> <p>Conduct a survey.</p> <p>Role play</p> <p>Make notes and summaries</p>	<p>Participate in class discussions</p> <p>Demonstrate an awareness of keeping oneself and environment clean and safe.</p> <p>Practice cooperation in group activities</p> <p>Recognize that values conflict.</p> <p>Refrain from causing disturbances in the classroom that make learning difficult/impossible.</p> <p>Show willingness to assume leadership roles.</p> <p>Appreciate the mentally and physically challenged as equal members of the society and recognize their contributions.</p>	<p>Language Arts</p> <p>Science</p> <p>Resource and Technology,</p> <p>Art &amp; Craft</p>

**Grade 7  
Term III**

**Theme  
Unit 3:  
Sub-Topic: B:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>STDs: what they are, their symptoms, causes and effects</p> <p>Myths and facts about STDs</p> <p>The social and economic cost of STDs</p> <p>Preventative measures</p>	<p>Explain the term, Sexually Transmitted Diseases.</p> <p>Describe the effect of STDs on the individual.</p> <p>Evaluate the social and economic cost of these diseases to the society.</p> <p>List the problems which can inhibit the treatment of these diseases and suggest solutions to these problems.</p> <p>Identify ways in which children can protect themselves from these diseases.</p> <p>Discuss the availability of support services for individuals suffering from these diseases.</p> <p>Identify and discuss myths associated with STDs.</p>	<p>Sexually transmitted diseases</p> <p>Promiscuity</p> <p>Epidemic</p> <p>Pandemic</p> <p>Morality</p> <p>Immorality</p> <p>Symptoms</p> <p>Contagious</p> <p>Intentions</p> <p>Myth</p>



**SEQUENCE**

**Living Together**  
**Social and Environmental Issues**  
**Sexually Transmitted Diseases**  
**change, conflict, culture**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Make decisions.</p> <p>Justify one's choice.</p> <p>Observe and record information.</p> <p>Differentiate between fact and myth.</p> <p>Illustrate advertisements.</p> <p>Analyse graphs tables</p> <p>Participate in class activities</p> <p>Identify the values and the values of others.</p>	<p>Emphathize with a child with STD.</p> <p>Show concern for the welfare of others.</p> <p>Show respect for the ideas and feelings of others.</p> <p>Be willing to protect themselves and others from STDs.</p> <p>Demonstrate an awareness of the importance of keeping healthy.</p> <p>Co-operate in group activities.</p>	<p>Language Arts</p> <p>Religious Education</p> <p>Resource and Technology</p> <p>Health and family life.</p> <p>Science</p>

**Grade 7  
Term I**

**Theme  
Unit 3:  
Sub-Topic: C:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Substances which are abused</p> <p>Health problems associated with substance abuse.</p> <p>Social and economic costs of substance abuse</p> <p>Role of friends, family members and society in eliminating substance abuse</p> <p>Substance abuse and the future</p>	<p>List substances abused and describe how the abuse occurs.</p> <p>Identify and explain the reasons people abuse various substances.</p> <p>Explain the ways in which drug addiction affects the individual, the family and the society.</p> <p>Analyse case studies on substance abuse.</p> <p>State rules that exist at home, at school, in the country which prohibit substance abuse and the sanctions for breaches.</p> <p>Describe the support services available to the abuser</p> <p>Predict the future consequences for the society if we fail to win the war against substance abuse.</p> <p>Assess the role of the media in substance abuse education</p>	<p>Substance abuse</p> <p>Drug abuse</p> <p>Alcoholism</p> <p>Addiction</p> <p>Rehabilitation</p>

**SEQUENCE**

**Living Together**  
**Social and Environmental Issues**  
**Substance Abuse**  
**change, conflict, culture**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Role play</p> <p>Make decisions.</p> <p>State consequences of choice.</p> <p>Differentiate between fact and myth.</p> <p>Group substances.</p> <p>Read resource materials.</p> <p>Write slogans/lyrics/dub poems.</p> <p>Draw reasoned conclusions about role of different agencies in substance abuse education.</p> <p>Analyse pictures, tables, graphs.</p> <p>Identify value conflicts.</p> <p>Practice cooperation in groups.</p>	<p>Become involved in a school substance abuse education programme.</p> <p>Express their own feelings on substance abuse.</p> <p>Accept responsibility for their own actions.</p> <p>See themselves as worthwhile individuals with a contribution to make to the society.</p> <p>Cooperate in groups.</p>	<p>Language Arts</p> <p>Religious Education</p> <p>Science</p> <p>Health and family life</p>

**SCOPE AND**

**Grade 7  
Term I**

**Theme  
Unit 3:  
Sub-Topic: D:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>Types of child abuse</p> <p>Reasons for child abuse</p> <p>Consequences of child abuse</p> <p>Protection for the abused child</p> <p>Historical perspective on child abuse</p>	<p>State reason why children are abused.</p> <p>Compare child abuse in Jamaica and in other parts of the world.</p> <p>Describe and explain the effects of abuse on the child.</p> <p>Suggest steps child should take to prevent child abuse or protect self from further abuse.</p> <p>State the consequences for the society if child abuse is not reduced/eliminated.</p> <p>Identify the work of agencies which assist abused children</p>	<p>Child abuse</p> <p>Incest</p> <p>Rape</p> <p>Buggery</p> <p>Age of consent</p> <p>Child labour</p> <p>Carnal abuse</p> <p>Pedophilia</p> <p>Corporal</p> <p>Punishment</p>

**SEQUENCE**

**Living Together**  
**Social and Environmental Issues**  
**Child Abuse**  
**change, conflict, culture**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
Role play	Empathise with children who have been abused.	Language Arts
Write letter		Religious
Read resource materials.	Participate in class discussions.	Education
Make summaries.	Demonstrate an awareness of how to protect themselves.	
Predict consequences.		
Draw conclusions.	Demonstrate a commitment to protecting selves and peers from child abuse.	
Draw cartoon strip		
Conduct interview.	See themselves as valuable members of the society.	
Research topics		
Differentiate between fact and myth	Tolerate points of view on child abuse that are different from their own.	
Detect cause and effect		

**SCOPE AND**

**Grade 7  
Term III**

**Theme  
Unit 3:  
Sub-Topic: E:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Rights and responsibilities</p> <p>The United Nations and the Rights of the Child</p> <p>Why rights are violated.</p> <p>Local laws</p>	<p>Memorize all the Rights of the child.</p> <p>Explain what each right means and give examples.</p> <p>Outline briefly the role of the United Nations in the Declaration of the Rights of the Child.</p> <p>Explain why children need rights.</p> <p>List the responsibilities children have to self, family, school, community and country.</p> <p>Examine the Jamaican laws which protect children and examine their effectiveness.</p>	<p>Rights</p> <p>Responsibilities</p> <p>Choice</p> <p>Self preservation</p>

**SEQUENCE**

**Living Together**  
**Social and Environmental Issues**  
**The Rights of the Child**  
**change, conflict, identity**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Express ideas through speech.</p> <p>Ask and answer questions.</p> <p>Make choices.</p> <p>Locate information</p> <p>Make charts.</p> <p>Draw conclusions.</p> <p>Dramatise a situation..</p>	<p>Recognize that rights and responsibilities go together.</p> <p>Realize that responsibilities assist character development.</p> <p>Show respect for rights of others.</p> <p>Appreciate that there is often a time lag between their recognition of their rights and the acceptance of these rights by adults.</p>	<p>Language Arts</p> <p>Guidance</p>

## SCOPE AND

**Grade 8  
Term 1**

**Theme  
Unit 1:  
Sub-Topic: A:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p><b>Jamaica's Location</b> i) in the Caribbean ii) in the World iii) Jamaica's size - area in sq. metres: comparisons to be drawn with some neighbouring countries e.g. Cuba, Trinidad, Venezuela, etc.</p> <p><b>Jamaica's relief</b> Major rock types.</p> <p><b>Changes and disasters brought about in the Jamaican physical environment through natural causes and the intervention of man</b></p> <p><b>Preventative relief measures and institutions to cope with natural disaster</b></p>	<p>Describe Jamaica's position in the Caribbean and in relation to the rest of the world.</p> <p>Demonstrate understanding of relative sizes of Caribbean land masses.</p> <p>Describe and explain the formation and appearance of various relief and drainage features found in Jamaica.</p> <p>Explain relationship between relief features, settlement and land use.</p> <p>4. The physical disasters to which Jamaica is prone as a result of a combination of physical factors (location, climate, relief) and human intervention</p> <p>5. Disaster preparedness measures that should be taken to minimize effects of natural disaster</p>	<p>Location</p> <p>Land masses</p> <p>Water bodies</p> <p>Relief features</p> <p>Drainage</p> <p>Rocks</p> <p>Sedimentary</p> <p>Igneous</p> <p>Metamorphic.</p> <p>Mountain, hill, valley, plain, plateau</p> <p>Climate</p> <p>Altitude</p> <p>Latitude</p> <p>Equator</p> <p>Zones</p>



**SEQUENCE**

**Working Together**

**Jamaica: Physical Resources**

**Location, Size, Relief**

**change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Observe and classify physical landscape.</p> <p>Measure and calculate distance, size and area.</p> <p>Read to obtain relevant information.</p> <p>Give oral reports.</p> <p>Give reasoned explanations.</p> <p>Establish cause and effect.</p> <p>Record information accurately.</p>	<p>Cooperate and work in groups.</p> <p>Work individually and to strive for excellence.</p> <p>Demonstrate a commitment to the preservation of the environment.</p> <p>Appreciate diversity of relief of features found in Jamaica</p>	<p>Maths</p> <p>Language Arts</p> <p>Science</p>

**Grade 8  
Term 1**

**Theme  
Unit 1:  
Sub-Topic: B:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>Reasons for the tropical marine nature of the climate</p> <p>Characteristics of this type of climate:</p> <p>i) temperature ii) wind iii) rain-fall</p> <p>Vegetation types associated with different physical regions of Jamaica</p> <p>Changes and disasters brought about in the Jamaican physical environment through natural cause and the intervention of man.</p> <p>Preventative relief measures and institutions to cope with natural disaster.</p>	<p>Describe and explain:</p> <ol style="list-style-type: none"> <li>1. The tropical marine nature of Jamaica's climate</li> <li>2. How climate and physical features interact to determine the natural vegetation cover</li> <li>3. How human activity has modified the natural vegetation cover.</li> </ol> <p>Name and/or list the natural disasters to which Jamaica is prone as a result of a combination of physical factors (location, climate relief) and human intervention.</p>	<p>Weather</p> <p>Natural vegetation</p> <p>Natural disaster</p> <p>Hurricane</p> <p>Drought</p> <p>Storm</p> <p>Flood</p> <p>Climate</p>

**SEQUENCE**

**Working Together**  
**Jamaica: Physical Resources**  
**Climate and Vegetation**  
**change, conflict, culture**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Read and collect data from various sources.</p> <p>Interpret and construct diagrams and charts.</p> <p>Ask precise questions.</p> <p>Label and annotate maps and diagrams.</p> <p>Interpret keys/legends, diagrams, and maps.</p> <p>Give reasoned explanations.</p> <p>Establish cause and effect.</p> <p>Record information accurately.</p>	<p>Grow in consciousness of the need for all citizens to protect the environment.</p> <p>Display an attitude of readiness for disaster.</p> <p>Educate others about disaster preparedness.</p>	<p>Language Arts</p> <p>Maths</p> <p>Science</p>

**SCOPE AND**

**Unit 2:  
Sub-Topic A:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Jamaica's total population composition in terms of age/sex</p> <p>Urbanization, internal migration, and the 'push and 'pull' factors</p> <p>The importance of acquiring a skill</p> <p>Under and unemployment</p>	<p>Describe population of Jamaica in terms of number, distribution and composition.</p> <p>Give reasons for under and unemployment.</p> <p>Describe the composition of the labour force - age, sex, education, skills.</p> <p>Identify and assess opportunities for training.</p> <p>Describe the economic effects of population growth and distribution.</p> <p>Compare the composition of today's labour force with the labour force during slavery and onwards.</p>	<p>Internal migration</p> <p>Population</p> <p>Age cohort</p> <p>Natural increase</p> <p>Labour force</p> <p>Urbanization</p> <p>Pull factors</p> <p>Push factors</p> <p>Population density</p> <p>Population composition population distribution, birth rate, death rate, skilled labour population growth, birth control family planning unemployment under-employment</p>

**SEQUENCE**

**Jamaica: Human Resources**

**Population**

**change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Prepare and present data in various forms.</p> <p>Ask precise questions.</p> <p>Read and interpret maps, graphs, charts.</p> <p>Debate topics.</p> <p>Make comparisons.</p>	<p>Appreciate the fact that all skills are needed for national development.</p> <p>Work as an employed or self employed person willingly.</p> <p>Appreciate the importance of acquiring a skill.</p> <p>Demonstrate an awareness of the fact that population control is necessary for improving living standards.</p>	<p>Career Education</p> <p>Maths</p> <p>Language Arts</p>

**SCOPE AND**

**Grade 8  
Term II**

**Theme  
Unit 3:  
Sub-Topic: A:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Traditional commercial crops. Non-traditional commercial crops Agro industries Large and small scale farming Agricultural organizations Importance of farming Problems associated with farming. Solutions to problems.</p>	<p>Categorize human activities as primary, secondary, tertiary.  Explain the relationship between human skills and abilities, physical resources and economic activity.  Explain how physical features and climate have influenced the choice and location of farming activities.  Describe the steps involved in the cultivation and processing of certain products.  Describe and assess government's role in agriculture.  Assess the part farming plays in the country's economy.  Identify and discuss the problems associated with farming  Critically assess farming practices in Jamaica.</p>	<p>Subsistence  Traditional crops Non-traditional crop  Commercial  Agro industry  Horticulture  Harvesting  Trade  Cultivation  Processing  Pastoral  Arable  Soil erosion  Technology  Large &amp; small scale farming  Praedial Larceny</p>

**SEQUENCE**

**Working Together**

**Using our Resources and Related Environmental Matters**

**Farming**

**change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Make notes and summaries.</p> <p>Observe and record information.</p> <p>Prepare and present data.</p> <p>Debate.</p> <p>Interpret distribution maps.</p> <p>Analyse and assess information.</p> <p>Categorize main agricultural products</p> <p>Dramatize a scene..</p>	<p>Appreciate the dignity of labour and the importance of all workers in the community.</p> <p>Demonstrate a commitment to the preservation of the physical environment.</p> <p>Show respect for the property of others.</p> <p>Experiment with new technology.</p>	<p>Career</p> <p>Education</p> <p>Language Arts</p> <p>Resource and Technology (Agriculture)</p>

**SCOPE AND**

**Grade 8  
Term II**

**Theme  
Unit 3:  
Sub-Topic: B:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Types of fishing: commercial, subsistence, sport.</p> <p>For each type: personnel involved, equipment used, catch and disposal of catch.</p> <p>Factors affecting fishing and the main fishing grounds</p> <p>Methods of conservation practised</p> <p>Methods of fishing used.</p> <p>Problem of pollution of rivers</p> <p>Significance to the economy</p> <p>Fish farming areas, methods, marketing, structure of the industry, part played by government in regulating and supporting the industry e.g. territorial waters</p>	<p>Describe the conditions which contribute to rich marine life.</p> <p>Describe and assess Government's involvement in the fishing industry.</p> <p>Describe the part the fishing industry plays in the national economy.</p> <p>Demonstrate an awareness of the practices inimical to the fishing industry.</p>	<p>Continental shelf</p> <p>Offshore fishing</p> <p>In shore</p> <p>Fish Farm</p> <p>Marine Life</p> <p>Cooperatives</p> <p>Pollution</p> <p>Sanctuary</p> <p>Banks</p> <p>Camp</p> <p>Inland fishing</p> <p>Fishing Village</p> <p>Fishing grounds</p> <p>Conservation</p>



**SEQUENCE**

**Working Together**

**Using our Resources and Related Environmental Matters**

**Fishing**

**change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Make notes and summaries.</p> <p>Prepare and present data as maps, charts diagrams.</p> <p>Observe and obtain data from pictures, maps and charts.</p> <p>Listen attentively.</p> <p>Ask relevant questions.</p> <p>Locate and name fishing villages and groups on a map.</p>	<p>Appreciate the dignity of labour and the importance of all workers in the community</p> <p>Be committed to the preservation of the marine environment.</p> <p>Display willingness to complete tasks assigned.</p>	<p>Language Arts</p> <p>Resource &amp; Technology (Agriculture) Science</p>

## SCOPE AND

**Grade 8  
Term II**

**Theme  
Unit 3:  
Sub-Topic: C:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Bauxite: where found and how mined</p> <p>Preparation for export</p> <p>Exporting ports and their facilities</p> <p>Countries of import</p> <p>Contribution to the economy</p> <p>Uses, qualities of aluminum</p> <p>Other minerals mined /quarried in Jamaica: gypsum, limestone, marble, silica, sand</p> <p>Location and uses</p> <p>Manufacturing activities: a) Processing of local agricultural materials. b) Industries based on imported raw materials and component parts.</p> <p>Possibility of pollution inherent in these activities and measures for environmental protection (both current and suggested).</p> <p>Sources of energy used for these industries and how these affect the environment.</p> <p>Workers and careers in mining and manufacturing industries.</p>	<p>Establish relationship between rock types and the occurrence of minerals.</p> <p>Describe the factors which have influenced the development of our mining and manufacturing industries.</p> <p>Identify and locate mining and manufacturing centres in Jamaica.</p> <p>Describe selected industrial processes.</p> <p>Assess the role of manufacturing industries in economic development of the country.</p> <p>Discuss the use and abuse of our mineral resources.</p> <p>Discuss attempts at conservation</p> <p>Preservation by the mining and manufacturing ministries in Jamaica.</p> <p>Assess the impact of mining and manufacturing on the environment.</p> <p>Identify and discuss careers in mining and manufacturing.</p>	<p>Raw materials,</p> <p>Production</p> <p>Processing</p> <p>Mass production</p> <p>Division of labour</p> <p>Manufacturing industry</p> <p>Industrialization, open-pit/open-cast</p> <p>Primary</p> <p>Secondary</p> <p>Tertiary</p> <p>Agro-industry</p> <p>Alumina</p> <p>Aluminum</p> <p>revenue</p> <p>tax</p> <p>levy</p> <p>output</p> <p>royalty</p>

**SEQUENCE**

**Working Together**

**Using our Resources and Related Environmental Matters**

**Mining and Manufacturing**

**change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Observe and obtain data from maps, charts, graphs, slides.</p> <p>Collect data, analyse and interpret findings.</p> <p>Make notes and summaries.</p> <p>Prepare and present data as maps, tables, graphs, models, charts</p>	<p>Appreciate the dignity of labour and the importance of all workers in the community</p> <p>Appreciate things Jamaican.</p> <p>Appreciate the importance of preserving the physical environment</p> <p>Display a willingness to work in groups.</p> <p>Work purposefully in groups.</p>	<p>Career Education</p> <p>Science</p> <p>Resource and Technology/Industrial Arts</p>

**SCOPE AND**

**Grade 8  
Term II**

**Theme  
Unit 3:  
Sub-Topic: C:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
Jamaica: main tourist markets and their relative importance.	Identify and name on a world map Jamaica's chief tourist markets.	Market Resort
Methods of transport	Describe the attraction which Jamaica possesses for tourism.	Tourist attraction
Impact of tourism on the country (economically, socially and culturally)	Assess the methods being used to promote these attractions.	Tourist
Main tourist attractions and centres	Discuss the economic linkages which emanate from the trade.	Tourism sector
Methods of promoting and organizing the industry	Discuss the advantages and disadvantages of the tourist trade in Jamaica.	Tourism product
Impact of tourism on the environment	Identify and discuss career opportunities in tourism.	Backward, Forward Linkages
Economic linkages with tourism	Predict trends in tourism	Stop over visitor
Tourism in the future new resorts/new trends		Eco-tourism
Careers in Tourism		cruise ship
		visitor
		All inclusive
		tour operator
		packaged holiday

**SEQUENCE**

**Working Together**

**Using our Resources and Related Environmental Matters**

**Tourism**

**change, conflict, culture, inter-dependence, identity**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Observe and read to obtain information.</p> <p>Read maps, graphs, charts and tables.</p> <p>Collect data using questionnaires and check lists.</p> <p>Prepare and present data in the form of maps, reports, models, charts, essays.</p>	<p>Appreciate things Jamaican and Jamaicans.</p> <p>Recognize and respect cultural differences.</p> <p>Assume civic responsibilities appropriate to their age.</p> <p>Display tolerance for people of other cultures</p> <p>Appreciate the importance of other languages to the tourism industries</p>	<p>Resource &amp; Technology/Art &amp; Craft</p> <p>Agriculture</p> <p>(Home Management)</p> <p>Language Arts</p> <p>Career Education</p>

**SCOPE AND**

**Grade 8  
Term III**

**Theme  
Unit 4:  
Sub-Topic: A:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
Modes of internal transportation	Identify models of internal transportation in Jamaica.	National
Volumes and types of vehicles using the roads	Identify and name the international and national airports in Jamaica.	International
Classification of roads into main, secondary, parochial.	Describe the routes taken by air, roads and the railways.	Route way
Road safety	Explain the purposes for which each mode of transport is used.	Site
Air and water transport	Explain the relationship between physical features and the development of routeways.	Main road
Changes in internal transport	Relate the undesirable effects of transportation on the environment.	Parochial
Transport and the environment	Demonstrate a knowledge of road safety measures	Secondary
Transport, relief, settlement and land use and the environment.	Establish relationship between transport settlement and other types of land use.	Modes of transport
Functions of Transport		Road safety
Regulatory bodies		

**SEQUENCE**

**Working Together  
Moving Goods and People  
Jamaica's Internal Transportation  
change, conflict, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Make and read maps.</p> <p>Report data in written and graphic form.</p> <p>Gather data through field visits.</p> <p>Observe use of transport.</p> <p>Write letter and descriptive paragraphs.</p>	<p>Take responsibility for one's own safety on the road.</p> <p>Cooperate fully in group situations.</p> <p>Take responsibility for keeping the environment clean.</p> <p>Exercise discipline in the use of the various modes of transport.</p> <p>Show respect for public property.</p>	<p>Maths</p> <p>Language Arts</p>

**Grade 8  
Term III**

**Theme  
Unit 4:  
Sub-Topic: B:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>Airports and seaports and their movement of goods and people</p> <p>Main airlines and shipping lines</p> <p>Kingston as a freeport and trans-shipment port</p> <p>The import and export processes</p> <p>Tariffs and custom duties</p> <p>Processes involved in travelling in and out of Jamaica</p> <p>Industrial action and the Transport Sector</p> <p>Career in airline and shipping industries</p>	<p>List main airlines and shipping lines which utilize Jamaican ports and Caribbean routes.</p> <p>Outline regulations governing the exporting of goods and the movement of people.</p> <p>Identify the main items of trade and direction of trade between Jamaica and the Caribbean.</p> <p>Evaluate the role and problems of national and regional airlines.</p> <p>Discuss the movement of people within and outside the Caribbean.</p> <p>Role of Kingston as a Trans-shipment port.</p>	<p>Sea port</p> <p>Free port</p> <p>Free trade</p> <p>Free Zone</p> <p>Quota</p> <p>License</p> <p>Import Duty</p> <p>Tariff</p> <p>Trading partner</p> <p>Trans-shipment</p> <p>Container services</p> <p>Customs duties</p> <p>export</p> <p>foreign exchange</p>



**SEQUENCE**

**Working Together  
Moving Goods and People  
Jamaica's Internal Transportation  
change, conflict, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Locate places and routes on maps</p> <p>Simulate travel precautions.</p> <p>Read materials and make notes.</p> <p>Read and make maps and charts.</p> <p>Draw flow diagrams.</p> <p>Debate.</p> <p>Write letters and compositions.</p>	<p>Take travel precautions seriously.</p> <p>Use rational processes to solve problems.</p> <p>Cooperate in group situations.</p> <p>Comply with customs' regulations governing travel regionally and internationally.</p>	<p>Maths</p> <p>Language Arts</p> <p>Career Education</p>

**SCOPE AND**

**Grade 8  
Term III**

**Theme  
Unit 5:  
Sub-Topic: A:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>Laws governing employers' and employees' rights and responsibilities</p> <p>Organizations which represent employers and employees locally</p> <p>Procedures used to secure rights</p>	<p>Discuss the laws governing rights and responsibilities of employers and employees.</p> <p>Identify the main organizations involved in formulating and protecting the rights of employers and employees.</p> <p>Describe the development of the Trade Union Movement in Jamaica.</p> <p>Assesses the importance of unions and other organizations of workers and employers.</p>	<p>Rights</p> <p>Strikes</p> <p>Responsibilities</p> <p>Laws</p> <p>Lock outs</p> <p>Trade Unions</p> <p>Pressure group</p> <p>Lobbying</p> <p>Industrial action</p> <p>Collective bargaining</p> <p>Management</p> <p>Grievance</p> <p>Industrial procedure</p> <p>Dispute</p> <p>Arbitration</p> <p>Work to rule</p> <p>Sick out</p> <p>conciliation</p> <p>employer</p> <p>employee</p>

**SEQUENCE**

**Working Together**

**Social Issues**

**Employers and Employees : Rights and Responsibilities**

change, conflict, culture, identity

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Select and use data to support a viewpoint.</p> <p>Listen and discuss critically and ask precise questions.</p> <p>Detect cause and effect relationship.</p> <p>Use resource materials to gain information.</p> <p>Role play.</p>	<p>Demonstrate a willingness to use rational processes to solve problems.</p> <p>Appreciate the importance of rules and laws.</p> <p>Appreciate the inter-dependence of employees and employers</p> <p>Appreciate the rights and responsibilities of both groups.</p> <p>Show tolerance for each category of worker.</p>	<p>Language Arts</p>

**SCOPE AND**

**Grade 9  
Term I**

**Theme  
Unit 1:  
Sub-Topic: A:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Reasons why people work</p> <p>Self expression and national development as motivational forces to work.</p> <p>Activities which can be viewed as both work or leisure.</p> <p>Leisure activities which could lead to career choice</p> <p>Person's choice of job and his or her reason for choice.</p> <p>Values and attitudes towards specific occupations.</p>	<p>Identify and discuss the reasons why people work.</p> <p>Differentiate between work and leisure.</p> <p>Identify and describe activities which may be work for some people and leisure for others.</p> <p>Make a personal statement about the type of work he/she would enjoy.</p> <p>Explain the term rewards and discuss the rewards people expect from work.</p>	<p>Leisure</p> <p>Work</p> <p>Wages</p> <p>Salary</p> <p>income</p> <p>career</p> <p>job</p> <p>employed</p> <p>self employed</p> <p>employable</p>

**SEQUENCE**

**Working Together**  
**Earning a Living**  
**Why People Work**  
**change, conflict, culture**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Identify critical attributes of relevant concepts.</p> <p>Read textbooks, magazines, newspaper.</p> <p>Observe, examine and explain cases showing variety in people's motivation for work.</p> <p>Make a decision in order to produce a personal statement. Make comparisons.</p> <p>Compile and present data in graphic forms.</p>	<p>Show a positive attitude towards work and its contribution to personal development.</p> <p>Show appreciation for all types of work and their interdependent function in national development.</p> <p>Recognize obligation to participate in learning activities.</p> <p>Show consideration for others' viewpoints and feelings.</p> <p>Work effectively in groups.</p>	<p>Language Arts</p> <p>Resource &amp; Technology</p> <p>Career Education</p>

**SCOPE AND**

**Grade 9  
Term I**

**Theme  
Unit 1:  
Sub-Topic: B:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>Ways of earning a living in Jamaica.</p> <p>Identifying career employment structures</p> <p>Classifying various ways of earning a living: Professional and Non-Professional.</p> <p>Agricultural occupations in the past,</p> <p>Non-traditional ways of earning a living as a result of changes in technology and economic shifts.</p> <p>Gender discrimination or distinction</p> <p>Organizations in Jamaica which contribeto the decline of gender distinction in occupations.</p> <p>Self employment of various types and their advantages and disadvantages</p>	<p>List and briefly describe a wide range of ways of earning a living ( Traditional and Non Traditional)</p> <p>Classify Jamaican occupations in a variety of ways.</p> <p>Identify occupations which are male dominant and female dominant.</p> <p>Examine changes since 1930 in occupational opportunities available in Jamaica.</p> <p>Discuss self employment and its advantages and disadvantages</p> <p>Predict occupation changes in the 21<sup>st</sup> Century.</p>	<p>Goods and Services</p> <p>Primary industry</p> <p>Secondary industry</p> <p>Tertiary industry</p> <p>Employee</p> <p>Entrepreneur/Self employment</p> <p>Traditional and Non-traditional occupations.</p> <p>Employment</p> <p>Unemployment</p> <p>Under-employment</p> <p>Gender</p> <p>Discrimination</p> <p>Feminism</p> <p>Labour Intensive</p> <p>Cottage</p> <p>Industry</p>

**SEQUENCE**

**Working Together  
Earning a Living  
Occupations in Jamaica  
change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Classify data.</p> <p>Interview.</p> <p>Research.</p> <p>Listen to and ask questions of a resource person.</p> <p>Report information graphically.</p> <p>Discuss and make judgments.</p> <p>Make comparisons.</p> <p>Make generalizations.</p>	<p>Show appreciation for all types of work and their interdependent functions in national development.</p> <p>Show willingness to address gender discrimination issues in employment.</p> <p>Show willingness to consider self employment as a viable alternative to paid employment.</p> <p>Recognize an obligation to participate in learning activities.</p> <p>Show consideration for the feelings and viewpoints of others.</p>	<p>Language Arts</p> <p>Resource &amp; Technology</p> <p>Career</p>

**SCOPE AND**

**Grade 9**

**Theme**

**Term I**

**Sub-Topic: C:**

**Unit 1:**

**Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Characteristics and peculiarities of certain jobs viz. safety, hours of work, Qualifications, job security etc.</p> <p>Workers' job satisfaction e.g. feelings about the job, tasks, co-workers, supervisors, etc.</p> <p>Ratio of males/females in particular jobs in general and in supervisory and / managerial roles</p> <p>Workers Unions.</p> <p>Employment of the Physically and Mentally challenged</p> <p>Unemployment</p> <p>Characteristic of acceptable working conditions</p> <p>Responsibilities of workers.</p>	<p>List and classify types of jobs available.</p> <p>Investigate characteristics and peculiarities of selected jobs.</p> <p>Identify jobs which are either male or female dominated.</p> <p>Discuss jobs in which gender employment is changing.</p> <p>Discuss and describe qualifications needed for employment in certain jobs.</p> <p>Identify and discuss the meaning of job satisfaction.</p> <p>Discuss the functions of Workers' Union in Jamaica.</p> <p>Discuss characteristics of acceptable working conditions.</p> <p>Investigate employment opportunities for Physically and Mentally Challenged.</p>	<p>Formal schooling</p> <p>Skilled/unskilled</p> <p>Promotion</p> <p>Training Experience,</p> <p>Supervisory/</p> <p>Managerial</p> <p>Job security</p> <p>Job satisfaction</p> <p>Delegate</p> <p>Strike</p> <p>Industrial action</p> <p>Working conditions</p> <p>Incentives</p>



**SEQUENCE**

**Working Together**  
**Earning a Living**  
**Investigating Jobs in Jamaica**  
**change, conflict, culture**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Work effectively in groups.</p> <p>List and classify data.</p> <p>Make comparisons</p> <p>Construct graphs, diagrams, charts.</p> <p>Give oral and written reports.</p> <p>Interviews.</p> <p>Research.</p> <p>Make choices and judgements</p> <p>Make statements about one's own skill and abilities</p>	<p>Show willingness to consider change in job opportunities.</p> <p>Appreciate the satisfaction to be derived from a job well done.</p> <p>Appreciate the skills and abilities of those who are Physically and Mentally challenged.</p> <p>Show tolerance for other people.</p> <p>Display a willingness to give a fair day's work for a fair day's pay.</p> <p>Appreciate the limiting effects of sex-role stereotyping.</p> <p>Appreciate the effects of personal values and workers rights on behaviour at the workplace.</p>	<p>Language Arts</p> <p>Career Education</p> <p>Resource &amp; Technology</p>

**SCOPE AND**

**Grade 9  
Term I**

**Theme  
Unit 2:  
Sub-Topic: A:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Who is a Consumer?</p> <p>Types of Consumers, goods, services, and credit consumed</p> <p>Factors influencing Consumer Spending e.g.:</p> <p>Advertisements, needs and wants, taste, income, culture, purchase arrangements e.g. hire purchase, lay-away</p> <p>Consumer as part of a chain</p>	<p>Explain who is a consumer and establish a link between consumer and producer</p> <p>Explain the different types of consumers.</p> <p>List and categorize the various goods and services people consume.</p> <p>Discuss the factors which influence consumer spending.</p> <p>Assess the impact of advertisement on the consumer.</p> <p>Differentiate between goods and services, needs and wants, and supply and demand.</p> <p>Discuss the importance of Hire Purchase and Mortgage to the consumer.</p>	<p>Consumer</p> <p>Goods</p> <p>Services</p> <p>Demand</p> <p>Supply</p> <p>Scarcity</p> <p>Glut</p> <p>Inflation</p> <p>Mortgage</p> <p>Hire Purchase</p> <p>Needs</p> <p>Wants</p> <p>Primary &amp; Secondary</p> <p>Goods</p> <p>Wholesaler</p> <p>Retailer</p> <p>Unit Price</p>

**SEQUENCE**

**Growing Together  
Consumer Affairs  
Consumer and Consumption  
change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>List and categorize data.</p> <p>Evaluate and analyse advertisements.</p> <p>Give oral and written reports.</p> <p>Conceptualize.</p> <p>Make generalizations and judgement.</p> <p>In discussions – develop, clarify, justify and ask probing questions.</p> <p>Make notes and summaries.</p> <p>Organize and carry out group work.</p>	<p>Demonstrate an awareness of the influence of culture on consumer behaviour.</p> <p>Demonstrate an awareness of subtle attempts to persuade and the element of persuasion in human relationships.</p> <p>Display willingness to consider and satisfy needs before wants.</p>	<p>Resource &amp; Technology (Home Management)</p> <p>Language Arts</p> <p>Mathematics</p>

**SCOPE AND**

**Grade 9  
Term I**

**Theme  
Unit 2:  
Sub-Topic: B:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Define thrift, savings, budget.</p> <p>Ways of being thrifty</p> <p>Saving and the various institutions that encourage consumers to save and invest</p> <p>Other forms of self-help e.g. morning sport, cooperatives.</p> <p>Partner Burial Scheme</p>	<p>Discuss various ways of controlling consumer spending.</p> <p>Identify the various institutions that encourage consumers to save and outline their functions.</p> <p>Differentiate between the different forms of savings and their usefulness.</p> <p>Suggest ways by which individuals and groups can practice self reliance.</p> <p>Distinguish between thrift, saving and budget.</p> <p>Discriminate between quality and price of various goods and services.</p>	<p>Income, Gross and Net,</p> <p>Thrift</p> <p>Investments</p> <p>Bonds,</p> <p>Budget</p> <p>Cooperative</p> <p>Banks,</p> <p>Credit Cards,</p> <p>Credit Union</p> <p>Fixed deposit</p> <p>Unit price</p> <p>Stock &amp; Shares</p>

**SEQUENCE**

**Growing Together**  
**Consumer Affairs**  
**Good Consumer**  
**change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Plan a budget and menu.</p> <p>Calculate prices, weights, volume. discounts on products.</p> <p>Make decisions</p> <p>Role-playing</p> <p>Solve problems</p> <p>Make choices.</p> <p>Contribute to group projects and outcomes.</p> <p>Read and analyse product label.</p> <p>Read utility bills and meters</p>	<p>Display willingness to practise self-reliance.</p> <p>Show appreciation for the importance of cooperative efforts in solving economic problems.</p> <p>Display a willingness to practise good consumer behaviour.</p> <p>Display a willingness to educate other people about good consumer practices.</p>	<p>Language Arts</p> <p>Mathematics</p> <p>Resource &amp; Technology (Home Economics)</p>

**SCOPE AND**

**Grade 9  
Term I**

**Theme  
Unit 2:  
Sub-Topic: C:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Consumer rights and responsibilities</p> <p>Exploitation and the need for consumer protection</p> <p>Consumer protection and the role of Government and other agencies</p> <p>Laws to protect the consumer e.g. Hire Purchase Act, Butcher's Regulation Act</p> <p>Use of the media in consumer protection Individual consumer protection</p>	<p>Outline the rights and responsibilities of the consumer.</p> <p>Suggest ways in which the consumer is exploited.</p> <p>Name the Government organizations and institutions dealing with consumer protection and describe their roles.</p> <p>Explain what is meant by Consumer Protection</p> <p>Suggest ways in which the consumer can be protected</p>	<p>Standard</p> <p>Price control</p> <p>Quality control</p> <p>Deregulation</p> <p>Import regulation</p> <p>Rights and responsibility</p> <p>Exploitation</p>

**SEQUENCE**

**Growing Together**  
**Consumer Affairs**  
**Consumer Protection**  
**culture, inter-dependence, identity**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
Research Debate. Make notes and summaries. Give oral report. Establish cause and effect. Conduct interviews. Make decisions. Make judgements. Determine facts from opinions. Ask relevant and precise questions. Solve problems.	Demand their rights and exercise their responsibilities. Respect the rights of other consumers. Willingness to give and get value for money. Educate others. Complete tasks.	Resource & Technology Home Economics Art & Craft Mathematics

**SCOPE AND**

**Grade 9  
Term II**

**Theme  
Unit 3:  
Sub-Topic: A:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Characteristics of Government</p> <p>Type of Government</p> <p>History, structure and functions of Government</p> <p>Checks and balances in the system of Government</p> <p>How laws are made</p> <p>Constitutional reform</p>	<p>Define the term Government and identify different types of Government and describe the type in Jamaica.</p> <p>Outline the development of our Government between 1938 and 1962.</p> <p>Describe the structure of Government.</p> <p>Explain what is Universal Adult Suffrage. State how our Government is elected.</p> <p>Discuss the relationship between Government and the individual.</p> <p>Law making process</p> <p>Role of law enforcers</p> <p>Discuss some issues related to constitutional reform.</p>	<p>Government Law</p> <p>Democracy</p> <p>Monarchy</p> <p>Republic</p> <p>Constitution</p> <p>Dictatorship</p> <p>Adult Suffrage</p> <p>Executive</p> <p>Judiciary</p> <p>Legislation</p> <p>Independence</p> <p>Nation</p> <p>Cabinet</p> <p>Senate, House of Representative</p>



CURRICULUM GUIDE - SOCIAL STUDIES

**SEQUENCE**

**Growing Together  
 Nation Building  
 Government  
 change, conflict, culture, inter-dependence**

SKILLS	ATTITUDES	POSSIBLE INTEGRATION
<p>Interpret charts, photographs, diagrams.</p> <p>Construct flow charts.</p> <p>Interpret political cartoons.</p> <p>Give oral and written reports.</p> <p>Sequence events.</p> <p>Establish cause and effect.</p> <p>Make decisions using democratic processes.</p>	<p>Show loyalty to one's country and respect for the various institutions.</p> <p>Display a sense of civic responsibility.</p> <p>Exercise their rights to vote.</p> <p>Accept decisions of the majority in the choice of Government or leadership.</p> <p>Demonstrate a willingness to separate issues from personalities.</p> <p>Demonstrate belief in the democratic process.</p>	<p>Language Arts</p> <p>Religious Education</p>

**Grade 9  
Term II**

**Theme  
Unit 3:  
Sub-Topic: B:**

**Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Citizenship (birth and naturalization)</p> <p>Rights to: Fair trial, vote, education, shelter</p> <p>Freedom of: movement, worship, speech</p> <p>Responsibilities to: family, job self, nation, community</p> <p>Rules and laws; police, army, courts, sanctions.</p> <p>Human Rights Organizations</p>	<p>Outline and discuss the rights and responsibilities of citizens contained in the Constitution.</p> <p>Identify cases of infringement of the rights of the individual.</p> <p>Explain the consequences of the violation of the rights and freedom of the individual.</p> <p>Suggest alternative to some societal sanctions.</p> <p>Identify and discuss the role of organizations concerned with human rights in Jamaica.</p>	<p>Nation Franchise</p> <p>Alien</p> <p>Citizens</p> <p>Citizenship</p> <p>Dual citizenship</p> <p>Rights</p> <p>Responsibilities</p> <p>Naturalisation</p> <p>Sanctions</p> <p>Freedom</p> <p>Commonwealth</p> <p>Citizens</p> <p>Constitution</p>

**SEQUENCE**

**Growing Together**

**Nation Building**

**People's rights, freedoms, responsibilities and consequences to violations of such rights**

**change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Make decision</p> <p>Solve problems</p> <p>Debate issues</p> <p>Do research</p> <p>Analyse information</p> <p>Identify difference between fact, opinion and bias</p> <p>Determine cause and effect.</p>	<p>Demand their rights and exercise their responsibilities as citizens in a democratic society.</p> <p>Participate in community and national affairs willingly.</p> <p>Show respect and concern for the well being of all members of society.</p> <p>Demonstrate a willingness to compromise.</p> <p>Work towards consensus.</p> <p>Appreciate the importance of law and order to the society.</p>	<p>Language Arts</p> <p>Religious Education</p>

**SCOPE AND**

**Grade 9  
Term II**

**Theme  
Unit 3:  
Sub-Topic: C:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Individuals who have contributed to the development in Jamaica of:</p> <ul style="list-style-type: none"> <li>• The Arts</li> <li>• Agriculture</li> <li>• Dance</li> <li>• Education/academic</li> <li>• Music</li> <li>• Sports</li> <li>• Theatre</li> <li>• Politics</li> <li>• Social Work</li> </ul> <p>Why leaders emerge: qualities associated with leadership</p> <p>Rewards to our leaders at various levels of society.</p>	<p>Identify leaders at school, in the community, the Caribbean and the World.</p> <p>Discuss the characteristics of a leader.</p> <p>Compare the circumstances which lead to the emergence of these leaders.</p> <p>Describe a Community Builder.</p> <p>Critically assess the achievements of the individual in order to justify his/her being called a Nation Builder.</p> <p>Explain how the nation honours/rewards its leaders</p>	<p>Leader</p> <p>Leadership</p> <p>Nation Builder</p> <p>Honour awards</p> <p>Loyalty</p> <p>Commitment</p> <p>Colonialism</p> <p>Anti-Colonialism</p> <p>Imperialist</p> <p>Nationalism</p> <p>Racism</p> <p>Consciousness</p>

**SEQUENCE**

**Growing Together  
 Nation Building  
 Nation Builders  
 change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Do Research</p> <p>Conduct interviews</p> <p>Make notes</p> <p>Give oral and written reports.</p> <p>Debate issues</p> <p>Discuss issues</p> <p>Make valid judgement.</p> <p>Provide evidence to support judgement.</p> <p>Make comparisons.</p>	<p>Appreciate the sacrifices for their beliefs made by some individuals in the past and in the present.</p> <p>Appreciate the part played by both males and females in nation building.</p> <p>Appreciate the personal fulfilment to be derived from fighting for a cause or making a contribution.</p> <p>Show appreciation for individual achievement and excellence during an individual's lifetime.</p>	<p>Language Arts</p> <p>Religious Education</p>

**SCOPE AND**

**Grade 9  
Term II**

**Theme  
Unit 3:  
Sub-Topic: D:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
History of Garvey's early life.	Relate biographical data on Garvey.	Pan Africanism
Economic, social and political conditions in Jamaica during Garvey's time.	Social, economic and political climate in Jamaica during Garvey's time.	Caribbean
Garvey's involvement with the trade union movement and politics.	The main thrust of Garvey's ideas.	National
Garvey's thoughts/ideas on racial pride, self-reliance, anti-colonialism,	Discuss the role of the UNIA in advancing Garveys cause	Self-reliance
African/Black nationalism	The attitude of Garvey's contemporaries to his ideas and activities.	Colonial
Garvey's organizations	Impact of Garvey's ideas on Jamaica's movement to independence.	Anti-colonialism
Garvey's imprisonment	Why Garvey was made a national hero.	Racial pride
Garvey's status when he died		Imperialism
Garvey as a national hero		Racism
Garvey's legacy		Independence

**SEQUENCE**

**Growing Together  
Nation Building  
Life and Work of Marcus Garvey  
culture, change, conflict, identity**

SKILLS	ATTITUDES	POSSIBLE INTEGRATION
<p>Construct time line.</p> <p>Do simulation activity</p> <p>Make posters</p> <p>Make rational reasoned judgements.</p> <p>Work co-operatively.</p> <p>Conduct interviews.</p> <p>Organize and participate in class/panel discussion.</p>	<p>Show pride in one's race.</p> <p>Accept that racial barriers are not insurmountable obstacles.</p> <p>Appreciate the struggle of black people everywhere and the advances made over time.</p> <p>Appreciate that black consciousness does not necessarily mean racial/colour prejudice.</p> <p>Demonstrate a commitment to action and progress.</p> <p>Appreciate that the reward for hard work is not always immediate.</p> <p>Appreciate that adversity provides challenge and opportunities for growth and development.</p> <p>Appreciate the life and work of Marcus Garvey as a symbol of the triumph of the human of the human spirit.</p>	<p>Language Arts</p> <p>Resource &amp; Technology</p>

**SCOPE AND**

**Grade 9  
Term II**

**Theme  
Unit 4:  
Sub-Topic: A:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>i) The United Nations, members functions and the structure of United Nations Organizations in Jamaica</p> <p>ii) The O.A.S in Jamaica</p> <p>iii) Jamaica as a member of the Common-Wealth of Nations</p>	<p>State what is the United Nations, when it was founded and give reasons for the formation.</p> <p>State who is Jamaica's representative to the United Nations and when Jamaica became a member, and describe the role of the representatives from member countries.</p> <p>Identify United Nations organizations in Jamaica.</p> <p>Describe their functions</p> <p>Describe giving examples the role of the U.N peace-keeping forces.</p> <p>Compare the role of the O.A.S in Jamaica with that of the U.N.</p> <p>Identify countries that are members of the Commonwealth of Nations.</p> <p>Describe Jamaica's position as a member of the Commonwealth of Nations.</p>	<p>Charter</p> <p>International Law</p> <p>Treaty</p> <p>Sanctions</p> <p>Commonwealth of nations</p> <p>Peace keeping</p> <p>International relations</p>



**SEQUENCE**

**Growing Together  
Regional and Global Relations  
World Government  
change, conflict, culture**

SKILLS	ATTITUDES	POSSIBLE INTEGRATION
<p>Locate and name places on a world map.</p> <p>Interpret information on maps and diagrams</p> <p>Sequence events</p> <p>Make comparisons.</p> <p>Debate issues.</p> <p>Compromise in issues</p>	<p>Appreciate collaboration at the individual, group, international, national level.</p> <p>Appreciate the value of lessons learned from past events.</p> <p>Appreciate the fact that individuals, groups, nations can all direct the future of our world.</p> <p>Appreciate the inter-dependence of nations.</p>	<p>Language Arts</p>

SCOPE AND

**Grade 9  
Term II**

**Theme  
Unit 4:  
Sub-Topic: B:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>European Union – ACP, Lome Convention</p> <p>Caribbean Basin Initiative</p> <p>CARICOM</p> <p>OECS</p> <p>Forms of regional cooperation.</p> <p>Information: CANA</p> <p>Transportation: BWIA, LIAT shipping lines: West Indies Cricket Team</p> <p>Finance: C.D.B.</p>	<p>Define Trade Agreements and suggest why they are necessary.</p> <p>Identify some Regional and International Trade Agreements of which Jamaica and the Caribbean are a part.</p> <p>Assess the benefits of CARICOM to member states of the Caribbean.</p> <p>Suggest any disadvantages to this type of regional integration in the Caribbean</p> <p>Describe Jamaica's trade with other Caricom territories.</p> <p>Identify other forms of regional cooperation within Caricom and discuss their functions</p> <p>Explain what these organizations are European Union, ACP, Lome Convention and the C.B.I</p> <p>State how these organizations assist Caribbean Territories</p>	<p>Trade</p> <p>Imports</p> <p>Exports</p> <p>Non-traditional</p> <p>Developed/Developing Countries</p> <p>Levy</p> <p>Bi-lateral</p> <p>Multi-lateral Agreements</p> <p>Quota</p> <p>Tariffs</p> <p>Duty free</p>

**SEQUENCE**

**Growing Together  
Regional and Global Relation  
Trade Agreements and Regional Economic Cooperation  
change, conflict, inter-dependence, identity**

SKILLS	ATTITUDES	POSSIBLE INTEGRATION
<p>Locate places on a map.</p> <p>Analyse data showing products traded and their value.</p> <p>Construct graphs and charts from given data.</p> <p>Research.</p> <p>Give written reports.</p> <p>Evaluate the work of the organizations identified and discussed</p>	<p>Appreciate the interdependence of people regionally and globally.</p> <p>Appreciate the advantages of cooperation to the individual nation and region.</p>	<p>Language Arts</p> <p>Mathematics</p>

**SCOPE AND**

**Grade 9  
Term III**

**Theme  
Unit 5:  
Sub-Topic: A:  
Organizing Concepts:**

<b>CONTENT</b>	<b>KNOWLEDGE</b>	<b>CONCEPTS</b>
<p>Causes and consequences of population growth.</p> <p>Measures to control population growth in some countries of the world</p> <p>Migration: internal and external</p> <p>Population growth: the 21<sup>st</sup> century.</p>	<p>Discuss the causes of population growth with specific reference to Developing world.</p> <p>Assesses the consequences of population growth.</p> <p>Discuss and compare measures taken to control population growth.</p> <p>Assess impact of migration on the losing countries, and on the receiving countries.</p>	<p>Population</p> <p>Census</p> <p>Over population</p> <p>Resources</p> <p>Birth rate</p> <p>Death rate</p> <p>Emigration</p> <p>Immigration</p> <p>Development</p> <p>Developed</p> <p>Developing</p> <p>Population</p> <p>Mortality rate</p> <p>Population explosion</p> <p>Slum</p> <p>Shanty town</p>

**SEQUENCE**

**Social Issues**

**Population: Explosion**

**culture, change, conflict, inter-dependence,**

SKILLS	ATTITUDES	POSSIBLE INTEGRATION
<p>Interpret maps, graphs, tables showing population data.</p> <p>Collect data by interviews and use of questionnaires.</p> <p>Present data in the form of tables, graphs.</p> <p>Make notes and summaries.</p> <p>Make comparisons.</p> <p>Give oral and written reports.</p>	<p>Develop a positive attitude to family planning.</p> <p>Take responsibility for their actions.</p> <p>Assume the responsibility to educate others about the merits of a small family.</p> <p>Appreciate people as a valuable resource.</p>	<p>Language Arts</p> <p>Mathematics</p> <p>Science</p> <p>Resource &amp; Technology</p> <p>Art &amp; Craft</p> <p>Home Economics</p>

SCOPE AND

**Grade 9  
Term III**

**Theme  
Unit 5:  
Sub-Topic: B:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>Diet</p> <p>Local production</p> <p>Uneven distribution of food.</p> <p>Food imports</p> <p>Global food shortage</p> <p>Global food aid</p> <p>Local food agencies</p> <p>International food Aid</p> <p>FAO</p> <p>UNESCO</p> <p>UNICEF</p> <p>Jobs in agriculture</p> <p>Attempts to solve food supply problems through agencies e.g. RADA, CARDI Regional Food Plan</p>	<p>Explain why countries including Jamaica, find it necessary to import food.</p> <p>Identify countries with serious problems of food shortage.</p> <p>Identify and discuss causes and effects of food shortage locally and globally.</p> <p>Explain the relationship between low nutrition and low productivity.</p> <p>Assess "food aid". Its social and economic costs.</p> <p>Suggest ways of solving the food shortage problem.</p> <p>Discuss the roles of agencies e.g. UNICEF, FAO, UNESCO, RADA, CARDI</p> <p>Regional Food plan in the Caribbean</p> <p>Factors that influence nutrition</p>	<p>Balanced diet</p> <p>Calories</p> <p>Malnutrition</p> <p>Self-sufficiency</p> <p>Production</p> <p>Glut</p> <p>Import</p> <p>Export</p> <p>Scarcity</p> <p>Nutrition</p>

**SEQUENCE**

**Growing Together**  
**Social Issues**  
**Food Supply**  
**change, conflict, culture, inter-dependence**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
<p>Establish cause and effect.</p> <p>Manage money.</p> <p>Interpret tables and other graphic materials.</p> <p>Solve problems.</p> <p>Locate places of particular food production.</p> <p>Make tables, charts, graphs. Research.</p> <p>Give oral and written reports</p>	<p>Appreciate the dignity of labour.</p> <p>Display a positive attitude towards self-sufficiency.</p> <p>Be willing to find solutions to personal and local problems.</p> <p>Assume the responsibility to Educate others about the importance of self-sufficiency.</p> <p>Appreciate the importance of agriculture to food supply and economic gain</p>	<p>Language Arts</p> <p>Resource &amp; Technology</p> <p>Home Economics</p> <p>Agriculture</p>

**SCOPE AND**

**Grade 9  
Term III**

**Theme  
Unit 5:  
Sub-Topic: C:  
Organizing Concepts:**

CONTENT	KNOWLEDGE	CONCEPTS
<p>Climate in relation to shelter, population growth and shelter need.</p> <p>Result of over crowding</p> <p>Types of shelter</p> <p>Culture and shelter.</p> <p>Building materials used.</p> <p>Historical buildings and responsibility for their maintenance</p> <p>Problems of shelter acquisition</p> <p>Institutions that assist people to acquire shelter.</p> <p>Safety in buildings.</p> <p>Impact on environment</p> <p>Construction workers.</p> <p>Future housing needs; shelter of the future</p>	<p>Discuss:</p> <ul style="list-style-type: none"> <li>• Shelter as basic human need</li> <li>• Relationship between shelter and climate</li> <li>• Relationship between population growth and demand for shelter in two case studies Germany and Brazil</li> </ul> <p>Impact of demand on housing types and land use and environment</p> <p>Change in architecture with time.</p> <p>Solution to overcrowding.</p> <p>Role of institution in acquisition of shelter in Brazil and Germany and comparison with Jamaica.</p> <p>Role of workers in the building industry.</p> <p>Influence of natural hazards on building styles.</p>	<p>Slum, shanty town, shacks, apartment, condominium, tenancy tenement yard</p> <p>Yard</p> <p>Rent</p> <p>Mortgage</p> <p>Lease</p> <p>Overcrowding</p> <p>Habitat</p> <p>Inner Communities</p>



**SEQUENCE**

**GROWING TOGETHER**

**Human Relations**

**Shelter**

**culture, conflict, inter-dependence, change**

<b>SKILLS</b>	<b>ATTITUDES</b>	<b>POSSIBLE INTEGRATION</b>
Interpret graphic material	Take pride in caring for their homes and the environment	Language Arts
Make models	Appreciate the impact of culture on architecture.	Science
Classify information	Appreciate the importance of safety in the construction of buildings.	Resource and technology
Establish cause and effect		
Make comparisons		
Make choices		
Make notes and summaries		
Identify problems and suggest solutions		
Give oral and written reports		

**SCOPE AND SEQUENCE**

**Grade 9**

**Continued from page 186**

## THE SCOPE AND SEQUENCE OF SKILLS

### GRADES 7-9

To learn how to do things is to learn a skill. A skill is defined as the ability to use one's understanding to accomplish a task effectively and readily. This ability is usually acquired after much regular practice and application in differing situations.

#### Categories of Skills

There are many ways to classify skills that are appropriate for inclusion in the Social Studies curriculum. This Guide focuses on five categories:

- Basic Communication Skills
- Map and Graphic Skills
- Thinking Skills
- Valuing Skills
- Participation Skills

The skills are not exclusive to Social Studies. For example, all subject areas need and use thinking skills and basic communication skills, and all teachers should provide opportunities for students to develop these skills whether or not they are primarily taught/introduced in Language classes. Somewhat more unique to Social Studies are map skills, valuing skills and decision-making skills. The expectation is that there will be concentrated efforts on the development of these and that they will be reinforced in other subject areas so that students may be able to practise them in a variety of contexts.

The key used in the following table is to be interpreted as follows:

I = Introduce

D = Develop (systematically, in greater depth)

M = Maintain (extend and re-teach where necessary)

The sequencing is meant as a guide only: teachers know their students best and should be flexible in using it. Moreover, cross – subject planning should reveal the skills that have been introduced in other areas and at what level difficulty, and so help determine the students' present need.

**TABLE SHOWING SKILLS TO BE LEARNT IN GRADES 7-9**

<b>SKILLS</b>	<b>GRADE 7</b>	<b>GRADE 8</b>	<b>GRADE 9</b>
<b>A. BASIC COMMUNICATION SKILLS</b>			
1. Recognize vocabulary	M	M	M
2. Detect cause and effect relationship	I	I	D
3. Recognize author bias	I	D	D
4. Use Pictures to gain meaning	D	D	M
5. Select main ideas	I	D	M
6. Use glossary, appendix, table of contents, index, dictionary, directory	I	I	I
7. Use community as a resource	I	I	I
8. Use newspapers, magazines, almanacs	I	D	D
9. Make notes	I	D	M
10. Use correct sentence structure	M	M	M
11. Prepare and write reports	I	I	I
12. Bargain with others			I
13. Persuade others	I	M	M
14. Debate a point of view	I	M	M
15. Give oral and written reports	I	D	D
16. Ask and answer questions precisely	D	D	D
17. Participate in class discussions	D	D	D
<b>B. MAP and GRAPHIC SKILLS</b>			
1. Use symbols to make or read maps and globes		D	

CURRICULUM GUIDE – SOCIAL STUDIES

SKILLS	GRADE 7	GRADE 8	GRADE 9
2. Identify and indicate the cardinal points		M	
3. Locate places and physical features	D	D	D
4. Use Scale to compute distance		I	M
5. Make comparisons between places	M	M	M
6. Make and read time lines	I	D	D
7. Places dates and events in chronological order	I	D	D
	I	D	D
8. Make and read time lines	I	D	M
9. Compute the length of time between two dates			
<b>C. THINKING OR INTELLECTUAL SKILLS</b>			
1. Ask relevant questions	I	D	M
2. Classify objects and information	D	D	M
3. Devise accurate titles for events, stories Pictures.	D	D	D
4. Interpret, analyze, summarize, synthesize and evaluate data	D	D	M
5. Draw reasoned conclusions	D	M	M
6. Make rational individual decisions	D	M	M
7. Justify conclusions/decisions	I	I	I
8. Detect techniques of persuasion	I	I	I
9. Form hypotheses	D	D	D
10. Predict from the known	I	I	I
11. Distinguish statements of facts from statements of opinion	I	D	M

CURRICULUM GUIDE – SOCIAL STUDIES

<b>SKILLS</b>	<b>GRADE 7</b>	<b>GRADE 8</b>	<b>GRADE 9</b>
12. Distinguish relevant from irrelevant information	I	D	D
13. Form concepts and generalizations	D	D	M
14. Detect bias, propaganda or inconsistency	I	D	M
15. Assess the reliability of sources of information	I	I	D
16. Determine the strength of an agreement	I	I	D
<b>D. VALUING SKILLS</b>			
1. Identify their own values	I	D	D
2. Identify the value conflicts	I	D	D
3. Identify value conflicts	I	D	M
4. Arrange their values in order of importance	I	D	D
5. Provide evidence to support or refute a particular value judgment	I	D	D
6. Make moral judgments (good or bad; right or wrong)	I	D	D
7. State alternatives			
8. Choose from alternatives	I	I	D
9. Act on their own choice	I	I	D
<b>E. SOCIAL PARTICIPATION SKILLS</b>			
1. Teach peers	I	D	D
2. Describe their own feelings	D	D	D
3. Empathize with others			

CURRICULUM GUIDE – SOCIAL STUDIES

SKILLS	GRADE 7	GRADE 8	GRADE 9
4. Show respect for the rights of others	D	D	D
5. Identify situations in which group decision making is required	D	D	M
6. Make group decisions democratically	D	M	M
7. Seek support for a plan of action	I	I	M
8. Organize group action and implement	D	D	D
9. Organize and carry out a plan of action in the community	D	D	D
10. Compromise	I	I	D
11. Vote	I	I	D
12. Work to influence people in positions of social and political power in the wider community	I	I	I
13. Cooperate	D	M	M
14. Act as group leaderships/members	D	D	M
15. Contribute to group projects and outcomes	D	D	M
16. Share group tasks equally	D	D	M
17. Make rules	I	D	M
18. Accept consequences for breaking rules	I	D	M