INFORMATION TECHNOLOGY

GRADE 11

TOPIC: PROBLEM-SOLVING AND PROGRAM DESIGN

OBJECTIVES

Students will be able to:

1. outline the steps in problem-solving
2. use the divide-and-conquer approach to decompose large everyday problems into smaller tasks
3. define a problem by decomposing it into its significant components
4. distinguish between variables and constants
5. explain the concept of algorithms
6. represent algorithms in the form of flowchart and pseudocode
7. test algorithms for correctness

TOPIC: PROGRAM IMPLEMENTATION

OBJECTIVES

Students will be able to:

1. distinguish between low-level and high level programming languages
2. describe the sequence of steps in implementing a program
3. perform checks and tests on programs to verify correctness
4. declare variables and constants using elementary data types
5. translate algorithmic statements into high-level language syntax
6. effectively document programs

TOPIC: WORD PROCESSING

OBJECTIVES

Students will be able to:

1. create a document using content from a range of sources
2. use appropriate document formatting features
3. use appropriate editing features to structure and organize a document
4. use the review feature of a word processor to enhance document readiness

5. appropriately use features that allow the protection of a document

6. generate table of contents for a document

7. use mail merge feature in the preparation of a document for a variety of situations

8. create a fillable electronic form for online use

TOPIC: WEB PAGE DESIGN

OBJECTIVES

Students will be able to:

1. plan a website structure and organization of page

2. create simple web pages using a variety of design features

3. insert hyperlinks within different locations of a typical web page

4. evaluate a website for accuracy, user friendliness and effective display