For use with STP *Caribbean Mathematics 3rd Edition Book 2*

MATHEMATICS SCHEME OF WORK

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Term I – 06/1/2020 – 03/04/2020	No of weeks : 13
Forms : 2P/2J/2M	No. of periods per week: 4

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(N.B. This is just a rough plan. The duration and date of lessons may be adjusted as time progresses. It is envisioned that at least 5 chapters of the text will be completed. If time is available, additional work will be done. Teaching time missed for exams (end of term and continuous assessments), Carnival, Sports Day, and any ad-hoc situations have been factored)

N.B. Week 1 of the new term will be used for distribution of test papers, doing solutions to the questions and addressing any queries in the test papers.

Mathematics Form Two Scheme of Work: Term Two

Topics

At the end of this chapter students should be able to:

Circles: Circumference and Area

Diameter, radius and circumference
Introducing π
Calculation of the circumference
Problems
Finding the radius of a circle given the circumference
The area of a circle
Problems
Mixed exercises

1 week

1. State the relationship between the circumference and diameter of a circle.
2. Calculate the circumference of a circle given its diameter or radius.
3. Solve problems involving the calculation of circumferences of circles.
4. Calculate the radius of a circle of given circumference.
5. Calculate the area of a circle of given radius.
6. Calculate the area of a sector of a circle of given angle.

Class Test – Questions based on Chapter 12 - 30mins

Volumes: Constant Cross-section

Volume of a cuboid
Volumes of solids with
uniform cross-sections
Volume of a cylinder
Compound shapes

1 week

At the end of this chapter students should be able to:

1   Calculate the volumes of solids with uniform cross-sections.

2   Calculate the volume of a cylinder, given its radius and height.

3   Calculate the volumes of compound shapes.

Class Test – Questions based on Chapter 15- 30mins

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At the end of this chapter students should be able to:

Probability

Single events
Possibility space for two events
Using a possibility space
Addition of probabilities
Finding the number of outcomes
Probability trees
Combining probabilities
Finding probability by experiment

3 weeks

1   Draw a possibility space for two events and use it to find probabilities.

2   Construct and use tree diagrams to find probabilities.

3   Estimate the probability of certain events by experiment.

Class Test – Questions based on Chapter 7- 30mins

At the end of this chapter students should be able to:

Statistics

Stem-and-leaf diagrams
Mean, mode and median
Finding the mode from a
    frequency table
Finding the mean from a
    frequency table
Finding the median from a
    frequency table

3 weeks

1   Construct and interpret a stem-and-leaf diagram.

2   Use a stem-and-leaf diagram to find the mode, mean
    and median of a set of data.

3   Find the mode, mean and median from data given in a
    frequency table.

Class Test – Questions based on Chapter 24- 30mins

At the end of this chapter students should be able to:

Squares and Square Roots

Squares
Areas of squares
Square roots
Rough estimates of square roots
Finding square roots
Rough estimates of square
  roots of numbers less than 1

2 weeks

Find the square of a given number.

Find a rough estimate of the square of a number.

Find the square of a number using a calculator.

Complete a table of given numbers and their squares.

Use values in (4) to draw the graph of $y = x^2$.

Use the graph of $y = x^2$ to find the squares of numbers.

Find, by inspection, the square root of a number.

Find rough estimates of square roots.

Use a calculator to find square roots of numbers to a given degree of accuracy.

Class Test – Questions based on Chapter 16- 30mins