MATHEMATICS SCHEME OF WORK

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Term I – 01/9/2020 – 11/12/2020	No of weeks : 15
Forms : 2P/2J/2M	No. of sessions per cycle: 5

(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 8 chapters of the text will be completed. If time is available additional work will be done).

Mathematics Form Two Scheme of Work: Term One
Topics

Working with Numbers

Laws of numbers
Changing between fractions,
  decimals and percentages
Positive indices
Multiplying numbers written
  in index form
Dividing numbers written in
  index form
Negative indices
The meaning of a^0
Standard form
Changing numbers into
  standard form
Approximations: whole numbers
Approximations: decimals
Significant figures
Rough estimates
Calculations: multiplication and
  division

4 weeks

At the end of this chapter you should be able to...

1. understand the laws and properties of numbers
2. multiply numbers written in index form
3. divide numbers written in index form
4. find the value of numbers written in index form
5. write numbers in standard form
6. write numbers correct to a given number of significant figures
7. approximate numbers to a given degree of accuracy.

Class Test – Questions based on Chapter 1

Denary system (base ten)

Base five

Other bases

Addition, subtraction and
   multiplication

Harder examples

Binary numbers

Mixed exercises

4 weeks

At the end of this chapter you should be able to...

1 use markers to represent groups of fives or powers of fives for a given number

2 write in figures the numbers represented by markers under the headings of five
   and powers of five

3 write, in headed columns, numbers to a given base

4 write, in base ten, numbers given in other bases

5 write a number given in base ten as a number to another given base

6 perform operations of addition, subtraction and multiplication in bases other than ten

7 determine the base in which given calculations have been done.

Class Test – Questions based on Chapter 2

Consumer arithmetic

Percentage increase

Percentage decrease

Problems

Mixed exercise

Hire-purchase

Wages

Commission

Exchange rates

Telephone bills

Electricity: kilowatt-hours

Electricity bills

Mixed exercises

Class Test – Questions based on Chapter 13

...uld be able to...

1 calculate percentage increase and decrease

2 calculate the cost of buying an item using hire-purchase

3 calculate workers' wages, salaries and commission

4 calculate sales tax and exchange rates

5 calculate the amount due on telephone and electricity bills.

4 weeks

Class Test – Questions based on Chapter 3