**MATHEMATICS SCHEMES OF WORK**

**STD 8 TERM III**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **WK** | **LSN** | **TOPIC** | **SUB TOPIC** | **OBJECTIVES** | **T/ACTIVITIES** | **L/ACTIVITES** | **T/AIDS** | **REF** | **REMARKS** |
| 1 | ***OPENING OF SCHOOL AND PREPARATIONS*** | | | | | | | | |
| 2 | 1-2 | Revision  Numbers | Place value and total value | By the end of the lesson pupils should be able to :- write numbers according to their place value.  - differentiate place value of digits from given figures | Revise the place value | Do exercise 1 | Chart on place value | Primary Maths  Bk 8  Pg 1 |  |
| 3 | Revision | Writing and reading numbers in symbols and words | By the end of the lesson pupils should be able to :- read and write numbers in symbols and in figures | Read and write numbers | Do exercise 2 | Chart on place value | Primary Maths  Bk 8  Pg 2 and 3 |  |
| 4-5 | Revision | Conversion of decimals to percentages and percentages to decimals | By the end of the lesson pupils should be able to :- convert decimals to percentages and vice versa | Revise conversion of fractions to percentages | Do exercise 31 and 32 | Class environment | Primary Maths  Bk 8  Pg 44 |  |
| 6-7 | Revision | Numbers sequence  Whole numbers and fractions | By the end of the lesson pupils should be able to :- work out and determine the next number in the sequence | Explaining using examples | Do the work in exercise 12 | Worked out examples | Primary Maths  Bk 8  Pg 15 and 16 |  |
| 3 | 1-2 | Measurements  Revision | Length | By the end of the lesson pupils should be able to :- measure different objects, parts, walls, using different units | Measuring using rulers, meter sticks, B.B ruler, strings | Measure  Estimating  Doing exercise 59 | Strings  Rulers  B/B rulers | Primary Maths  Bk 8  Pg 88 |  |
| 3-4 | Revision | Converting units of measurement mm, cm, M, dm, Dm, Hm and Km | By the end of the lesson pupils should be able to :- convert units of measurements from one unit to other | Converting units of measuring lengths  Explaining | Converting  Working out problems n conversion | Conversion table | Primary Maths  Bk 8  Pg 89-90 |  |
| 5-6 | Revision | Operation involving units of length | By the end of the lesson pupils should be able to :- work out problems involving distance of various places i.e. field paths walls and the perimeter and also circumference | Explaining  Work out examples | Do the exercise | Teachers own collection | Primary Maths  Bk 8  Pg 89-90 |  |
| 7 | Revision | Perimeter and circumference | By the end of the lesson pupils should be able to :- work out problems involving perimeter and circumference of combined shapes | Work out examples  On the chalk board | working the questions on exercise 60 | Teachers own collection | Primary Maths  Bk 8  Pg 90-94 |  |
| 4 | ***END OF MONTH EXAMS TERM III*** | | | | | | | | |
| 5 | 1-2 | Measurement  Revision | Volume  Cuboids and cubes | By the end of the lesson pupils should be able to :- find the volume of different containers by multiplying base area x height | Explaining how to get volume.  Using worked out examples | Attempting to work out  Do exercise 71 | Drawings in the book | Primary Maths  Bk 8  Pg 114 and 115 |  |
| 3-4 | Measurement  Revision | Volume of cylinders | By the end of the lesson pupils should be able to :- find the volume of cylinders using formula pie x r2 x height | Explain using worked out examples in the pupils book |  |  |  |  |
| 5-6 | Measurement  Revision | Area of combined shapes | By the end of the lesson pupils should be able to :- work out areas of combined shapes | Dividing the shapes in workable shapes using the formula | Dividing shapes and attempting to work out  Do exercise 99 | Examples in the book | Primary Maths  Bk 8  Pg 99-100 |  |
| 7 | Measurement  Revision | Area of combined shapes | By the end of the lesson pupils should be able to :- find diameters and circumference of given shapes | Explain using various example  Display a cylinder | Cutting open a cylinder the top, bottom and the folded parts |  |  |  |
| 6 | 1-2 | Measurement  Revision  Surface area | Surface area of cylinders | By the end of the lesson pupils should be able to :- find surface area of cylinders | Revise area of a circle  Solving examples on the chalk board | Work out problems on surface area  Do exercise 70 | Examples in the pupils book | Primary Maths  Bk 8  Pg 112-113 |  |
| 3-4 | Revision  Volume | Volume of cubes and cuboids | By the end of the lesson pupils should be able to :- workout the volume of cubes and cuboids | Revise volume of cubes | Work out examples involving volume of cubes and cuboids | Examples in the pupils book | Primary Maths  Bk 8  Pg 114-116 |  |
| 5-6 | Revision | Volume of triangular prism | By the end of the lesson pupils should be able to :- find volume of triangular prisms | Revise volume of cubes  Work out problems involving triangular prisms | Do exercise 71  Do exercise 72 |  | Primary Maths  Bk 8  Pg 119 |  |
| 7 | Revision | Volume of cylinders | By the end of the lesson pupils should be able to :- find the volume of cylinders | Revise area of a circle  Work out problems involving volume of cylinders | Do exercise 73 | Examples in the pupils book | Primary Maths  Bk 8  Pg 120-121 |  |
| 7 | 1-2 | Measurement  Revision | Mixed exercise | By the end of the lesson pupils should be able to :- work out sums on mixed exercises | Revise volume of cylinders | Work out problems in the mixed exercise  Do exercise 74 | Examples in the pupils book | Primary Maths  Bk 8  Pg 122-123 |  |
| 3-4 | Measurement  Revision | Volume and capacity | By the end of the lesson pupils should be able to :- find the volume of different containers | Find the volume of cylinders  Give examples and work out problems involving volume and capacity | Do exercise 75 | Examples in the pupils book | Primary Maths  Bk 8  Pg 124-126 |  |
| 5-6 | Measurement  Revision | Volume and capacity | By the end of the lesson pupils should be able to :- convert units in capacity i.e. from ml, dl, and liters | Find the volume of different containers convert units in capacity | Answer questions orally  Do exercise from teachers own collection | Containers i.e. buckets,, tins | Primary Maths  Bk 8  Pg 126-128 |  |
| 7 | Measurement  Revision | Mass | By the end of the lesson pupils should be able to :- find mass of different weights and also convert from grams, kilometers and Tonnes | Convert mass in grams – Kg grams to tones and vice versa | Answer questions  Attempt exercise 78 | Conversion table in the pupils book | Primary Maths  Bk 8  Pg 129-130 |  |
| 8 | ***MID TERM EXAMS TERM III*** | | | | | | | | |
| 9 | 1-2 | Money Revision | Profit and loss | By the end of the lesson pupils should be able to :- work out problems involving profit and loss | Explain to pupils how one gets profit and selling goods and also loss | Pupils to attempt answering questions in their note books | Examples in the pupils book | Primary Maths  Bk 8  Pg 131-134 |  |
| 3-4 | Money Revision | Percentage profit and loss | By the end of the lesson pupils should be able to :- work out % profit and loss | Explain profit and loss  Find profit and loss | Work out problems involving % profit and loss | Examples in the pupils book | Primary Maths  Bk 8  Pg 135-136 |  |
| 5 | Revision | Bills | By the end of the lesson pupils should be able to :- prepare a bill on items bought | Prepare a bill | Do exercise | Display a bill | Primary Maths  Bk 8  Pg 138-139 |  |
| 6 | Revision | Discount and percentage discount | By the end of the lesson pupils should be able to :- calculate discount and express it into percentage | Find discount on items  Work out their percentages | Attempt exercise 83-84 | Examples in the pupils book | Primary Maths  Bk 8  Pg 140-141 |  |
| 7 | Revision | Commission and percentage commission and hire purchase | By the end of the lesson pupils should be able to :- define commission, work out percentage commission  Define hire purchase and work out problems involving hire purchase | Find commission  Work out problems involving commission and percentage commission  Defining hire purchase | Do exercise 85-86 | Given examples in the pupils book | Primary Maths  Bk 8  Pg 147-152 |  |
| 10 | 1-3 | Money Revision | Simple interest | By the end of the lesson pupils should be able to :- work out problems involving simple interest | Find the simple interest using the formula principle x rate x tome divided by 100 | Attempt questions on exercise 87-88 | examples in the pupils book | Primary Maths  Bk 8 |  |
| 4-5 | Money Revision | Simple interest | By the end of the lesson pupils should be able to :- find rate, principle time given the others i.e. IS x 100 = principle  R x T | Find principle and rate | Do exercise | Teachers own collection | Primary Maths  Bk 8 |  |
| 6-7 | Money Revision | Compound interest | By the end of the lesson pupils should be able to :- find the compound interest | Revise simple interest  Explain compound interest  Work out examples on compound interest | Do exercise | Teachers own collection | Primary Maths  Bk 8 |  |
| 11 | ***K.C.P.E EXAMS*** | | | | | | | | |
| 12 | ***END OF YEAR EXAMS*** | | | | | | | | |