**MATHEMATICS SCHEMES OF WORK**

**STD 8 TERM III**

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| **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 MathsBk 8Pg 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 MathsBk 8Pg 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 MathsBk 8Pg 44 |  |
| 6-7 | Revision | Numbers sequenceWhole 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 MathsBk 8Pg 15 and 16 |  |
| 3 | 1-2 | MeasurementsRevision | 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 | MeasureEstimatingDoing exercise 59 | StringsRulersB/B rulers | Primary MathsBk 8Pg 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 lengthsExplaining | ConvertingWorking out problems n conversion | Conversion table | Primary MathsBk 8Pg 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 MathsBk 8Pg 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 MathsBk 8Pg 90-94 |  |
| 4 | ***END OF MONTH EXAMS TERM III*** |
| 5 | 1-2 | Measurement Revision | VolumeCuboids 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 outDo exercise 71 | Drawings in the book | Primary MathsBk 8Pg 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 outDo exercise 99 | Examples in the book | Primary MathsBk 8Pg 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 exampleDisplay a cylinder | Cutting open a cylinder the top, bottom and the folded parts |  |  |  |
| 6 | 1-2 | Measurement RevisionSurface 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 circleSolving examples on the chalk board | Work out problems on surface areaDo exercise 70 | Examples in the pupils book | Primary MathsBk 8Pg 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 MathsBk 8Pg 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 cubesWork out problems involving triangular prisms | Do exercise 71Do exercise 72 |  | Primary MathsBk 8Pg 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 circleWork out problems involving volume of cylinders | Do exercise 73 | Examples in the pupils book | Primary MathsBk 8Pg 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 exerciseDo exercise 74 | Examples in the pupils book | Primary MathsBk 8Pg 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 cylindersGive examples and work out problems involving volume and capacity | Do exercise 75 | Examples in the pupils book | Primary MathsBk 8Pg 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 orallyDo exercise from teachers own collection | Containers i.e. buckets,, tins | Primary MathsBk 8Pg 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 questionsAttempt exercise 78 | Conversion table in the pupils book | Primary MathsBk 8Pg 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 MathsBk 8Pg 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 lossFind profit and loss | Work out problems involving % profit and loss | Examples in the pupils book | Primary MathsBk 8Pg 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 MathsBk 8Pg 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 itemsWork out their percentages | Attempt exercise 83-84 | Examples in the pupils book | Primary MathsBk 8Pg 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 commissionDefine hire purchase and work out problems involving hire purchase | Find commissionWork out problems involving commission and percentage commissionDefining hire purchase | Do exercise 85-86 | Given examples in the pupils book | Primary MathsBk 8Pg 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 MathsBk 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 MathsBk 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 interestWork out examples on compound interest | Do exercise | Teachers own collection | Primary MathsBk 8 |  |
| 11 | ***K.C.P.E EXAMS*** |
| 12 | ***END OF YEAR EXAMS*** |