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| NAME |  |
| TSC NO. |  |
| SCHOOL |  |

**MATHEMATICS SCHEME OF WORK STD 8 TERM ONE**

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| **WEEK** | **LESSON** | **TOPIC/SUB**  **TOPIC** | **OBJECTIVES** | **T/L ACTIVITIES** | **REFERENCES** | **T/L AIDS** | **REMARK** |
| **1** | **Opening and Preparations** | | | | | | |
| **2** | **1 – 7** | NUMBERS  Place values and total values.  Square and square roots. LCM, GCD and divisibility test. Fractions | The learner should be able to:  Read and write numbers in symbols and in words.  Work out squares of numbers and square roots of perfect squares. Convert fractions and percentages into percentages and fractions.  Convert decimals to percentages and percentages into decimals.  Write the place values and total values of numbers. | Writing total values and place values.  Finding square and square  roots.  Reading and writing numbers in symbols and in words. Converting fractions into  percentages and percentages into fractions.  Converting decimals into fractions and fractions into  decimals.  Working out LCM , GCD and divisibility test | Understanding math pg 1 – 14  Progressive math  pg 1 – 6  Learning mathematics pg 5 –  13 | A chart |  |
| **3** | 1 – 7 | OPERATION  ON NUMBERS. Operations involving whole  numbers. Combining operations. Operation | Work out problems involving  operations of whole numbers. Work out problems involving operations on fractions.  Work out problems involving operation in decimals.  Work out problems involving  combined operation.  Work out problems involving percentage increase and | Working out problems on  whole numbers.  Work out operations on fractions  Work out operations on decimals  Working out sums on  combined operations. Working out problems on percentage increase. | Understanding  mathematics pg 16  – 43  Progressive math  pg 10 – 13  Learning math pg  41 - 46 | A chart |  |
|  |  | Involving: fractions and decimals. Percentage increase and decrease. Number sequence. | Decrease.  Work out problems in number sequence | and decrease.  Working out problems on number sequence. |  |  |  |
| **4** | **1 – 7** | **END OF MONTH EXAMS** | | | | | |

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| **5** | 1 – 7 | LENGTH/MEA  SUREMENT Units of length Area  Surface area  Volume Capacity Mass | Workout problems involving units of  length.  Work out problems involving area and surface area.  Work out problems involving volume.  Working out problems involving units of capacity.  Convert units of capacity to units. Work out problems involving mass | Work out problems involving  units of length  Work out problems involving area and surface area.  Work out problems involving  volume.  Work out problems involving units of capacity.  Converting units of capacity to  units of volume. Working out problems involving mass | Understanding  math pg 48 – 78  Progressive math pg 36 – 84  Learning math pg  54 – 89 | A chart |  |
| **6** | **1 – 7** | MEASUREMEN T  Profit and loss  Percentages  profit and loss  Bills  Commission and  percentage commissions Discount and percentage discount.  Hire purchase  Simple interest | Work out problems involving profit and loss  Percentage profit and loss.  Work out problems involving bills.  Work out problems involving discounts percentage discount, commission and percentage commission.  Work out problems involving hire  purchase.  Work out problems involving simple  interest.  Work out problems involving compound interest using simple interest per unit time.  Work out problems involving postal charges. | Work out profit, loss, percentage profit and loss. Working out problems on bills. Working out problems on discount percentage discount, commission and percentage commission.  Working out problems involving hire purchase. Working out simple and compound interest. Working out examples. | Understanding math pg 89 – 121  Progressive math pg 94 – 111  Learning math pg  91 – 110 | A chart |  |
| **7** | **1 – 7** | **Midterm exams and Break** | | | | | |
| **8** | 1 – 7 | TIME SPEED AND TEMPERATURE | The learner should be able to:  Work out problems involving time and speed.  Work out problems involving distance and average speed.  Work out problems involving temperature in degrees siliceous. | Working out problems involving time and speed. Working out examples involving distance and average speed.  Temperature and degrees siliceous | Understanding math pg 48 – 54  Learning math pg  111 -117 | A chart clock |  |

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| **9** | 1 – 7 | GEOMETRY  Construction of a Pythagorean relationship | construct triangle  Construct circles touching the three sides of the triangle.  Work out problems using Pythagorean relationship.  Construct parallelograms and rhombuses  Work out problems involving properties of squares, rectangles,  parallelograms, rhombuses and trapeziums.  Recognize and identify triangles and square based pyramids  Identify and make nets of pyramids and prisms.  Make geometrical patterns | Constructing triangles.  Draw a perpendicular from a point to a line.  Constructing a circle. Working out problems  involving Pythagorean relationship.  Constructing parallelograms and rhombuses.  Working out problems involving properties of square, rectangles, parallelograms, rhombuses and trapezium. Identifying triangular and square based pyramids  Making nets  Making geometrical patterns. | Understanding  math pg 147 – 183  Progressive math pg 56 – 6 8  Learning math pg  118 - 138 | A chart  Cut outs of patterns Geometric al sets |  |
| **10** | **Revision** | | | | | | |