**Course Division 2079**

**C. Maths**

**Class:- I X**

**First Term 2079**

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| **Unit** |  ***Subject Matter*** | ***ETP*** |
| **1. Set** | * Set operations (i) Union, intersection difference and complement of sets (up to three sets) (ii) Cardinality of sets
 | 6 |
| **2. Arithmetic** | * Tax (Income tax, value added tax)
 | 7 |
| **3. Mensuration** | * Area of scalene triangle
* Units off area used in local level: ( Units Bigaha, Kattha, Dhur, Ropani, Anna, Paisa and dam.)
* By using cm2 and m2, area of triangular and quadrilateral surface.
 | 8 |
| **4. Algebra** | * Factorization of the form of (a±b)3,a3±b3 and a4+a2b2+b4
* Simplification of the problem related to indices having same base.
 | 10 |
| **5. Geometry** | * Triangle
* Relation between exterior and opposite interior angles of triangle ( only experiment)
* Relation between the base and bisector of vertical angle of an isosceles triangle. ( Only experiment)
* Relation between the sum of any two sides and third side of triangle ( Only experiment)
 |  |
| **6.Statistices and Probability** | * Collection and classification of data.
* Frequency table (Discrete and continuous series
* Histogon frequency polygen, frequency ogive.
 | 6 |

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**C. Maths**

**Second Term**

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| **Unit** |  ***Subject Matter*** | ***ETP*** |
| **2. Arithmetic** | * Commission and dividend
 | 6 |
| **3. Mensuration** | * Problems related to area ( 4 walls, floor and ceiling)
* Problems related to investment cost in daily life.

( Examples: Carpeting, policing etc. | 12 |
| **4. Algebra** | * H.C.F. and LCM at most three expressions in the form of ax2+bx+c, (a±b)3,a3±b3,a4+a2b2+b4
 | 8 |
| **5. Geometry** | * Relation between the corresponding angles of similar triangles
* Relation between the corresponding sides of similar triangles.
* Problems related to similar triangles
 | 8 |
| **6. Statistics and Probability** | * Mean, Median and mode and quartiles of ungrouped data.
 | 11 |

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**C. Maths**

**Third Term**

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| **Unit** |  ***Subject Matter*** | ***ETP*** |
| **2. Arithmetic** | * Home arithmetic
* Electricity bill, water bill
 | 8 |
| **3. Mensuration** | * Surface area and volume of prism
 | 8 |
| **4. Algebra** | * Solving simultaneous equations by elimination and substitution method
 | 8 |
| **5. Geometry** | * Quadrilateral
* Relation of diagonals, opposite sides and opposite angles of parallelogram
* Problems related to quadrilateral
* Construction of quadrilateral and trapezium
 | 15 |
| **6.Statistics and probability** | * Introduction and probability
* Classical and experimental probability scale
* Basic concept of probability ( Experiment, random experiment, result, sample space, mutually exclusive event)
* Empirical probability
 | 6 |
| **7 Trigonometry** | * Concept of trigonometrical ratios
* Trigonometric ratios of standard angles (0°,30°,45°,60° 90°)
 | 6 |

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**C. Maths**

**Final Term**

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| **Unit** |  ***Subject Matter*** | ***ETP*** |
| **2. Arithmetic** | * Telephone/Mobile bill
* Tax bill
 | 8 |
| **3.Mensuration** | * Surface area and value of cylinder and sphere
 | 8 |
| **4. Algebra** | * Sequence and series
* Introduction of sequence and general term.
* Introduction of series
* Use of ∑ (sigma/ summation)
* Arithmetic and geometric sequence and series ( Introduction general term)
 | 10 |
| **5. Geometry** | * Circle
* Relation of perpendicular drawn from centre to the chord.
* Relation between perpendicular length from the centre to the equal chord.
* Problems related to centre and chord of the circle.
 | 12 |
| **7. Trigonometry** | * Use of trigonometry ratios ( sine, cos, tan)
 | 6 |