

**MATHEMATICS**  
**HALF YEARLY**

**Unit Test - 1**

1. Chapter - Rational Numbers
2. Chapter - Polygons
3. Chapter - Square and Square roots

**Unit Test - 2**

1. Chapter - Quadrilaterals
2. Chapter - Direct and Inverse Proportions
3. Chapter - Data Handling - I - Classification and Tabulation of Data

**HALF YEARLY**

1. Chapter - Rational Numbers
2. Chapter - Polygons
3. Chapter - Squares and square roots
4. Chapter - Quadrilaterals
5. Chapter - Exponents and powers
6. Chapter - Data handling I - Classification and Tabulation of Data
7. Chapter - Practical Geometry
8. Chapter - Comparing Quantities I - Percentage
9. Chapter - Mensuration I - Area of Polygons
10. Chapter - Factorisation
11. Chapter - Direct and Inverse Proportions
12. Chapter - Special Types of Quadrilaterals
13. Chapter - Data Handling II - Bar graphs and Histograms

**Unit Test - 3**

1. Chapter - Linear Equations in one variable
2. Chapter - Time and work
3. Chapter - Data Handling III - Pie charts or circle graphs

**Unit Test - 4**

1. Chapter - Cubes and Cube roots
2. Chapter - Introduction to graphs
3. Chapter - Playing with Numbers

**ANNUAL EXAMINATION**

1. Chapter - Linear Equations in one variable
2. Chapter - Introduction to graphs
3. Chapter - Data Handling III - Pie charts or circle graphs
4. Chapter - Cubes and cube roots
5. Chapter - Time and work
6. Chapter - Data Handling IV - Probability
7. Chapter - Comparing Quantities II - Profit and loss , Discounts, Sales Tax and Vat
8. Chapter - Comparing Quantities - III Compound Interest
9. Chapter - Algebraic Expressions and Identities
10. Chapter - Visualising solid shape
11. Mensuration II - Surface Area and volume of solids
12. Playing with numbers.

\* Whole syllabus will be included in Annual Examination.

**ACTIVITY**

1. Representation of square root on number line. (U.T -1)
2. To verify that the sum of the measures of the exterior angles of any polygon is  $360^\circ$  by paper cutting and pasting. (U.T-1)
3. To verify that the sum of interior angles of a quadrilateral is  $360^\circ$  by paper cutting and pasting. (U.T-2)
4. To develop the concept of inverse variation by activity method. (U.T.-2)
5. To show that the area of a rhombus is equal to half the product of its diagonals. (Half Yearly)
6. To make a rhombus by paper folding method. (Half yearly)
7. To represent the information in a pie chart : Time spend during a day in  
(i) School      (ii) H.W      (iii) Play      (iv) Sleep      (v) T.V
8. To construct a pascal triangle with graph paper. (U.T-4)
9. To verify  $(a + b)^2 = a^2 + 2ab + b^2$  with the help of chart paper. (Annual Term)
10. To verify that the formula for surface area of a cuboid by activity method. (Annual Term)
11. To draw front, top and side view of 3D shapes made by combining unit cubes. (Annual Term)