**AIR FORCE SCHOOL, BAMRAULI**

**ANNUAL SPLIT UP SYLLABUS**

**ACADEMIC SESSION : 2024-25**

**SUBJECT : MATHS** **CLASS : VII**

**BOOK NAME : NCERT**

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| **MONTHS** | **CHAPTER /** **UNIT NO** | **TOPIC / SUB-TOPIC** | **ACTIVITY** |
| **APRIL** | **1 and 2** | Chapter1 -INTEGERS: Properties of Addition and Subtractions of Integers Multiplication and Division of Integers Properties of Multiplication of Integers Properties of Division of Integers Word Problems Chapter-2: FRACTIONS AND DECIMALS: Diagrammatic Representation of Fraction. Simplest and Equivalent Form of Fractions. Basic Operations on Fractions and Decimals. Word Problems. |  Activity-1: Addition and Subtraction of Integers by Game. Assessment: Quiz / Puzzle / Exit cards . |
| **MAY** | **3** | Chapter 3 -DATA HANDLING: Frequency distribution table using Tally Marks Mean, Range, Medians and Mode of Ungrouped Data Constructing Bar Graph | Activity2 : To collect data and represent this through a bar graph.  |
| **JUNE** |  |  |  |
| **JULY** | **4** | Chapter4 -SIMPL EEQUATIONS: Recall Solutions of Equations Formation of Equations , Solving simple Equations Application of Simple Equations to Practical Situations |  |
| **AUGUST** | **5** | Chapter5 -LINES AND ANGLES: Recall, Curves, Shapes, Point, Line S egment, Line , Distinct types of Angles Pair of Angles , Properties of Parallel Lines and related problem. Transversal and related Angles and its problems. |  Activity3 : To verify that vertically opposite angles are equal. Model of parallel Lines and transversal. |
| **SEPTEMBER** | 6 | Chapter 6 : TRIANGLE AND ITS PROPERTIES: Recall Types of Triangles Median sand Altitudes of a Triangle Exterior angles of a Triangle and its Properties.Angle sum property of a TriangleSpecial types of triangles: Equilateral and Isosceles Triangle Sum and Difference of two sides of a Triangle compare with the third side Right Angle Triangle and Pythagoras Property , Word Problem | Activity 4 :To Prove and verify the sum of angles of triangle is 180 degrees. |
| **OCOTCBER** | **7** | Chapter7 : -COMPARING QUANTITIES: Percentage , Converting of Fractions, Decimals into fraction and Converting Percentage into Fractionsor and Decimals Applications of Percentage in: Profit/Loss and Increase or Decrease as Percentage , Simple Interest Word Problems | Activity 5 :MultipleAssessment: Quiz / Puzzle / Exit cards / Oral test/Origami/PPT/Project.  |
| **NOVEMBER** | **8 and 9** | Chapter8 : -RATIONAL NUMBERS: Recall of Natural Numbers, Whole Numbers and Integers. , Need for Rational Numbers. Standard form of Rational Numbers , Comparison of Rational Numbers Finding Rational Numbers between two Rational Numbers Operationon 0f Rational NumbersChapter9 : -PERIMETER AND AREA: Area of Triangle and Parallelogram Area of Triangles , Circumference o f Circle Area of Circle. | Activity-6: To find the ratio of circumference and diameter of circle.  |
| **DECEMBER** | **10** | Chapter 10 -ALGEBRAIC EXPRESSIONS: Recall of term, Variables , Coefficients, Factors of a Term General Algebraic Expressions Involving One or Two Variables , Like and Unlike Terms Classification of Monomials, Binomials, Trinomials and Polynomials , Finding the Value of an Algebraic Expressions. | Activity 7: To add two algebraic expression using different strips of cardboard.  |
| **JANUARY** | **11** | Chapter11 : -EXPONENTS AND POWERS: Introductions , Laws of Exponents Decimals Number System and Exponents , Expressing Large Number in the Standard Form , Revision of significant topics. |  |
| **FEBRUARY** | **12** | **Chapter 12 : -SYMMETRY: Recall of Symmetric and Non-symmetric Figures . Line of Symmetry and Lines of Symmetry for Regular Polygons . Rotational Symmetry : Angle of Rotation and Order of Rotation** Chapter 13 : -VISUALISING SOLID SHAPES: Plane Figures and Solid Shapes Nets fo rBuilding 3-DShapes Drawing Solid ona Flat Surface (Obliquea nd | Activity 8 :To find the order of rotational symmetry of given figure Activity 9 : Making toys by using different 3 D shapes.: MultipleAssessment: Quiz / Puzzle / Exit cards / Oral test. |
| **MARCH** |  | **ANNUAL EXAMINATION** |  |