Carmel Convent Sr. Sec. School Ratanpur, Bhopal
Academic Year Planner: 2023-24

Std.: VII
Subject: Mathematics

Month/No. of working days	Name of the Chapter/Topics	Learning Outcomes	Suggested Activities/Projects under internal Assessment/Practicals	Assignment	Assessment
April	**Ch-1 Integers:** Properties of addition, subtraction, multiplication and division.	• Adds/subtracts/multiplies/divides two integers. • Applies properties • Solves problems related to real life based on integers. •	Solve integers and colour the butterfly according to given instructions.	Worksheet based on ch-1 Prepare geometry city model using 2D and 3D shapes	On the basis of worksheet
June	**Ch-2 Fractions and Decimals** Multiplication and division of fractions, Multiplication and Division of Decimals	• Interprets the multiplication and division of fractions and decimals. • Solves problems related to daily life situations.	To represent product of decimals 0.7 x 0.3 and 0.5 x 0.5 using square sheet. To multiply two fractions using square paper.	Worksheet based on ch-2 Solve examples.	Class test will be taken
July	**Ch-2 (contd.) Ch-3 Data Handling Ch-4 Simple Equation** Arithmetic Mean, Range, Mode, Median and Use of Bar Graphs What is an Equation, Solving of an equation, Application of equation.	• Finds various representative values for simple data from daily life contexts like mean, mode, median. • Interprets data using bar graphs. • Represents daily life situation in the form of simple equation and solves it.	Represent data on a bar graph using paper cuttings. To solve the linear equation using different color counters.	Worksheet based on ch-3, 4 Collect numerical data from 10 people about their average mobile usage during a month and represent it in the form of bar graph.	**Periodic Test - I (Chapter-1)**
August	**Ch-5 Lines and Angles Ch-6 The Triangle and its Properties** Complementary and supplementary angles, Parallel Lines, Transversals. Exterior angle property, Angle sum property, Pythagoras Property.	• Classifies the pair of angles based on their properties. • Verifies the properties of angles formed when a transversal cuts two parallel lines. • Applies various properties of triangles.	Practicals based on- Establishing properties of various pairs of angles formed by a transversal. Sum of exterior angles. Angle sum property of triangle. To verify Pythagoras property.	Worksheet based on ch-5, 6 Solve Try These exercises given on pg.no. 95	Class test will be taken
September	**Exam/Revision**				**Term - I (Chapter 1, 2, 3, 4,5,6)**

October	**Ch-8 Comparing Quantities, Ch-9 Rational Numbers** Ratio, Percentage, Interest, Rational number on number line, Operation on Rational numbers	• Distinguishes quantities that are in proportion. • Calculates profit/loss percent and simple interest. • Compares rational numbers. • Performs operations on rational numbers.	Calculate the weight of elements in human body-Activity based on Rational Numbers.	Worksheet based on ch-8, 9 Solve examples.	On the basis of worksheet
November	**Ch-9(Contd.),Ch-11 Perimeter and Area, Ch-12 Algebraic Expression** Area of Triangles, Parallelograms, Circles, Terms and Coefficient of terms, Finding the value of Expression	• Calculates area of the closed figure. • Performs practicals related to properties of triangle. • Translates a real life situations in the form of algebraic expression. • Finds value of expression.	Perform an activity to find the formula of area of circles. Decode the phone number by solving algebraic expression.	Worksheet based on ch-11, 12 What are the terms in the expression 8y + 3x and 7mn - 4.Draw a tree diagram for the same.	Oral questions will be asked
December	**Ch-13 Exponents and Powers, Ch-14 Symmetry** Laws of exponents, expressing in the standard form, Lines of Symmetry and Rotational symmetry	• Applies laws of exponents. • Examines the given figure to identifies line of symmetry as well as rotational symmetry.	Activity to find the exponential values of the number 2. Draw the figures and identify the multiple lines of symmetry.	Worksheet based on ch-13, 14 Draw symmetrical images present in nature.	**Periodic Test - II (Chapter 8, 9)**
January	**Ch-15 Visualizing Solid Shapes** Faces, Edges, Vertices, Nets and cross sections of solid shapes	• Examines cross section of solid shapes. • Explores nets of solid shapes through activities. •Visualizes different solid shapes.	Identify the nets which can be used to make cubes by cutting copies of given nets. Draw the solid shapes and write their number of faces, edges, vertices.	Worksheet based on ch-15 Match the nets with appropriate solids.	Revision questios will be given to solve
February	**Exam/Revision**				**Final Exam (Chapter - 8,9,11,12,13,14,15)**

Name of the subject teachers: Mrs. Bindhi, Mrs. Priti, Mrs. Shailaja

Signature of Subject Coordinator :