



THE ADVENT SCHOOL (2026-27)
CLASS –VII | SUBJECT –MATHEMATICS
TERM WISE SYLLABUS

NAMES OF TEXTBOOKS–

1. NCERT
2. REFERENCE BOOK: NEW LEARNING COMPOSITE MATHEMATICS

TERMS	CHAPTERS	TOPICS/SYLLABUS
PRE MID-TERM	Chapter-1, (Part I) Large Numbers Around Us	<ul style="list-style-type: none"> Writing and Reading Numbers Place Value and Face Value Standard and Expanded Form Successor and Predecessor Comparing of Numbers Ascending and Descending Order Nearest Neighbours Patterns in Products. Activity: Estimate and compare the population of your town (e.g., in 2011 vs 2024) with 1 lakh.
	Chapter-2, (Part I) Arithmetic Expression	<ul style="list-style-type: none"> Simplification of Complex Arithmetic Expression, Order of Operation, Properties of Integers, BODMAS Rule. Activity: "Price List Scavenger Hunt": Create expression for B purchasing items (e.g., 4 adults and 3 children) using parentheses, such as $(4 \times 40) + (3 \times 20)$.
MID TERM	Chapter-3, (Part I) A peak beyond the Point	<ul style="list-style-type: none"> Representing decimal numbers on number line Place value and decimal Like and unlike decimal numbers Converting a decimal into a fraction Addition and subtraction of decimals Approximation of Decimals Activity: "Measure Everything": Use a mm-scale to measure everyday objects. Arrange them in order of length, or measure body parts to practice precision in measurement.
	Chapter-4, (Part I) Expressing using Letter-Numbers	<ul style="list-style-type: none"> Translating words into algebraic expression Evaluating Algebraic Expression Coefficient Degree of polynomial Addition and subtraction of Algebraic expression Algebra as generalization Number sequence and patterns. Activity: "Shopping Calculator": Define variable Prices (e.g., for a pencil, or an eraser) and write combin expressions to determine the total cost of items sold over several days.

MID TERM	<p>Chapter-5, (Part I) Parallel and Intersecting Lines</p>	<ul style="list-style-type: none"> • Lines around us • Types of angles • Vertically opposite angles • Concept of transversal • Angles formed by parallel lines and transversal • Construction of a line parallel to given line through a point not on the line. • Activity: Identifying parallel and intersecting lines in daily life, constructing angles, and studying properties of transversals.
	<p>Chapter-6 (Part I) Number Play</p>	<ul style="list-style-type: none"> • Parity, parity of expressions and parity rules • Number magic • Magic square • The Virahanka-Fibonacci Numbers Sequence • Virahanka Numbers in nature • Activity: Playing with number patterns, exploring properties of divisibility, and discovering relationships between numbers.
	<p>Chapter-7,(Part I) A Tale of Three Intersecting Lines</p>	<ul style="list-style-type: none"> • Medians of triangle • Altitudes of triangle • Types of triangles • Angle sum property • Exterior angle • Triangle inequality property • Construction of triangles • Activity: Constructing intersecting lines and analyzing the relationships between the angles formed (vertically opposite, linear pair)
	<p>Chapter-8, (Part I) Working with Fractions</p>	<ul style="list-style-type: none"> • Fractions • Kinds of fractions • Comparison of fractions • Addition and subtraction of fractions • Multiplication and division of fractions • Simplification • Activity: Modeling fractional parts using shapes, paper folding, and solving word problems related to sharing or dividing items.
POST MID-TERM	<p>Chapter-1 (Part II) Geometric Twins</p>	<ul style="list-style-type: none"> • Concepts of congruence • Criteria for congruence of triangles (SSS, SAS, ASA, AAS and RHS) • Special properties of isosceles and equilateral triangle • Activity: Real-World Shape Hunting: Identifying identical items in the environment, such as two windows of the same house, tiles or leaves.

POST MID-TERM	Chapter-2 (Part II) Operations with Integers	<ul style="list-style-type: none"> • Integers • Absolute Value • Comparing and ordering of integers • Additive Integers • Properties of addition, subtraction, multiplication and Division. Multiplicative identity • Property of zero • Distributive property • Activity: Multiplying and Dividing Integers Math Penna Activity
	Chapter-3 (Part II) Finding Common Ground	<ul style="list-style-type: none"> • Factors and Multiples • Factor tree • Common factor (HCF and LCM) • HCF by long division method • Properties relating HCF and LCM • Activity: Factors and Multiples: Understanding that factors divide a number exactly without leaving a remainder.
FINAL-TERM	Chapter-4 (Part II) Another Peak Beyond the Point (Decimals)	<ul style="list-style-type: none"> • Dividing decimal by 10 or any power of 10 • Multiplying decimal by a whole number or a decimal • Dividing decimal by a whole number • Dividing a decimal by a decimal • Terminating and repeating decimals • Approximation • Activity: Decimal War Card Game (Ordering): Players pull two cards with decimals (e.g., 0.25 vs 0.005) and compare them, with the higher value winning the round.
	Chapter-5 (Part II) Connecting the Dots	<ul style="list-style-type: none"> • Data, Array, Range, Mean and Median • Arithmetic mean of the grouped data • Bar graph • Activity: Classroom Data Collection: Collect shoe sizes, height, or number of pets from classmates to create a data set for analysis.
	Chapter-6 (Part II) Construction and Tilings	<ul style="list-style-type: none"> • Importance of construction • Construction of a perpendicular bisector • Construction of Angle bisectors • Construction of angle equal to a given angle • Construction of different angles • Regular hexagon • Tangrams • Tiling • Activity: Perpendicular Bisector Concurrence: Construct all three perpendicular bisectors of a triangle to demonstrate that they meet at a single point (circumcentre).

	Chapter-7 (Part II) Finding the Unknown	<ul style="list-style-type: none">• Solving simple equations• Inverse operation method• Solving two steps equations• Transposition method• Fractional equation• Activity: Students create their own algebraic word problems Based on real-life scenarios.
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