



BLOOM PUBLIC SCHOOL

C-8 Vasant Kunj, New Delhi

Syllabus for the Session 2026-27

Class: IX

Subject: MATHEMATICS

SYLLABUS SESSION 2026-27

MONTH	CHAPTER (NCERT Text Book)	CONTENT	ACTIVITIES/PRACTICALS
April	Ch- 6: LINES AND ANGLES (NCERT OLD- EDITION) https://www.aspirationsinstitute.com/wp-content/uploads/2021/01/9-Maths-NCERT-Book-Lines-and-Angles.pdf	• Intersecting Lines and Non-intersecting Lines • Pairs of Angles • Parallel Lines and a Transversal • Angle Sum Property of a Triangle	<u>ACTIVITY - 1</u> A line which intersects two or more lines at distinct points is called a transversal.
	Ch- 7: TRIANGLES (NCERT OLD- EDITION) https://www.aspirationsinstitute.com/wp-content/uploads/2021/01/9-Maths-NCERT-Book-Triangles.pdf	• Congruence of Triangles • Criteria for Congruence of Triangles • Properties of a Triangle	
May	Ch- 1 Orienting Yourself: The Use of Coordinates	• The 2-d Cartesian Coordinate System • Distance Between Two Points in the 2-D Plane	<u>ACTIVITY- 2</u> To identify the abscissa and ordinate of points from a given figure on the Cartesian plane.
	Ch 3: The World of Numbers	• Integers: Expanding the Horizon • Fractions and Rational Numbers	

		• Representation of Rational Numbers on the Number Line • Irrational Numbers • Real Numbers: Decimals and Cyclic Patterns • Rational Decimals: Terminating and Repeating	
July	Ch 2: Introduction to Linear Polynomials	• Linear Polynomials • Exploring linear patterns • Linear growth and linear decay • Linear Relationships • Visualising linear relationships	<u>ACTIVITY- 3</u> Students will be able to multiply two binomials using algebra tiles and represent the product as a quadratic expression.
	Ch 4: Exploring Algebraic Identities	• Visualising Identities • Factorisation of Algebraic Expressions Using Identities. • Factorisation Without Using Algebra Tiles • Finding New Identities • Simplifying Rational Expressions	
August	Ch 5: I'm Up and Down, and Round and Round	• Symmetries of a Circle • Chords and the Angles They Subtend • Midpoints and Perpendicular Bisectors of Chords • Distance of Chords from the Centre • Angles Subtended by an Arc	<u>ACTIVITY- 4</u> Students will be able to calculate the area of a sector and understand how the central angle determines the portion of the circle covered by the sector.

		• Concyclicity of Points	
	Ch 6: Measuring Space: Perimeter and Area	• Perimeter of a Shape • Perimeter of a Circle —The C/D Ratio • π Is Irrational • Length of an Arc of a Circle	
September	Revision for Mid term	Chapterwise revision.	
October	Ch 6: Measuring Space: Perimeter and Area	• Problems, Puzzles, and Paradoxes on Perimeter • Area of a Rectangle • Area of a Triangle • Heron's formula • Squaring a Rectangle • Area of a Circle • Area of Sector of a Circle	<u>ACTIVITY 5:</u> To find the area of a triangle using Heron's Formula and verify it by the conventional formula.
	Ch 7: The Mathematics of Maybe: Introduction to Probability	• Introduction to Probability • The Probability Scale • Experimental Probability: Performing Observations or Experiments • Theoretical Probability • Tree diagrams • Analysing Statistical Data Using Probability • Elements of Probability: Sample Spaces and Events	<u>ACTIVITY- 6</u> To find experimental probability of each outcome of a die when it is thrown a large number of times.

November	Ch 8: Predicting What Comes Next: Exploring Sequences	• Introduction to Sequences • Rule for a Sequence • Recursive Rule for a Sequence • Arithmetic Progressions • Sum of the First n Natural Numbers • Geometric Progressions	<u>ACTIVITY- 7</u> To find the sum of first n natural numbers.
	Ch 12: Quadrilaterals (Part II)	• Properties of Parallelograms • Midpoint Theorem • Centroid Theorem	<u>ACTIVITY- 8</u> To verify that the line segment joining the midpoints of two sides of a triangle is parallel to the third side and half of its length.
December	Ch 13: Two Variables, One Line (Part II)	• Linear equations in two variables • Standard form of linear equations in two variables • Solution of linear equations in two variables • Slope intercept form • Graphical method for solving a pair of linear equations in two variables	<u>ACTIVITY- 9</u> To solve a pair of linear equations in two variables graphically.
	Ch 10: How Quantities Combine: Understanding Data (Part II) (Application-Based Learning)	• Mean, Median Mode	
January	Ch 14: Math of Space: Surface Area & Volume (Part II)	• CSA & TSA & Volume of Cube, Cuboid, Cylinder, Cone, Sphere & Hemisphere	

	Ch 11: The World of Algorithms (Part II)	Greatest Common Divisor	<u>ACTIVITY- 10</u> To find a formula for the curved surface area of a right circular cylinder, experimentally.
February	Revision	Revision Worksheets	
March	Bridge Course	Bridge Course Worksheets	

ASSESSMENT SYLLABUS	
PERIODIC ASSESSMENT -1	(NCERT OLD- EDITION) - Ch- 6: Lines And Angles - Ch- 7: Triangles
MID TERM EXAM	(NCERT OLD- EDITION) - Ch- 6: Lines And Angles - Ch- 7: Triangles <u>New -Edition - Ganita Manjari</u> - Ch 1: Orienting Yourself: The Use of Coordinates - Ch 2: Introduction to Linear Polynomials - Ch 3: The World of Numbers - Ch 4: Exploring Algebraic Identities - Ch 5: I'm Up and Down, and Round and Round
PERIODIC ASSESSMENT -2	- Ch 6: Measuring Space: Perimeter and Area - Ch 7: The Mathematics of Maybe: Introduction to Probability
ANNUAL EXAMINATION	PART I - Ch 1: Orienting Yourself: The Use of Coordinates - Ch 2: Introduction to Linear Polynomials - Ch 3: The World of Numbers - Ch 4: Exploring Algebraic Identities - Ch 5: I'm Up and Down, and Round and Round - Ch 6: Measuring Space: Perimeter and Area - Ch 7: The Mathematics of Maybe: Introduction to Probability - Ch 8: Predicting What Comes Next: Exploring Sequences PART II - Ch 11: The World of Algorithms - Ch 12: Quadrilaterals - Ch 13: Two Variables, One Line - Ch 14: Math of Space: Surface Area & Volume