SYLLABUS BREAK-UP (2026-27)

CLASS IX

MATHEMATICS

I Weekly Test (May 4, 2026)
Syllabus - (Chapter-2)
II Weekly Test (July 7, 2026)
Syllabus - (Chapter 1, Chapter 4, Chapter 5)
Half Yearly Exam (II Week of September,2026 onwards)
Syllabus- (Chapter-6, Chapter-7 Chapter-8, Chapter- 9, Chapter- 10) + syllabus of I and II weekly test
Periodic Test (II TERM)(December 21,2026 to December 30, 2026)
Syllabus- (Chapter- 3, Chapter 11)
Mock Tests for Annual Examination (In the month of January 2027)
Syllabus- (Chapter 1 to Chapter 15)
Annual Exam (II Week of February, 2027 onwards)
Syllabus- (Chapter 1 to Chapter 15)

Chapters	Topics	No. of Periods	
1. Chapter 2	**Introduction to Polynomials**		(11) Periods
	2.1 Algebraic expressions	1	06.04.2026 to 17.04.2026
	2.2 Introduction of polynomials	2	
	2.3 Introduction to linear polynomials and applications	1	
	2.4 Exploring linear patterns	1	
	2.5 Modelling linear growth and linear decay	1	
	2.6 Linear relationships and its visualisation	1	
	2.7 Linear equation in two variables: solutions and graph	2	
	2.8 Slope and y-intercept of a line y = ax + b	1	
	Problem discussion	1	
			(10 periods)
2. Chapter 1	**Number Systems**		20.04.2026 to 30.05.2026 ***(I Weekly test on 4th May,2026)**
	1.1 Introduction to rational numbers	1	
	1.2 Representation of rational numbers on the number line	1	
	1.3 Density of rational numbers and its proof	1	
	1.4 Finding rational numbers between any two rational numbers	1	
	1.5 Decimal representation of rational numbers	1	
	1.6 Introduction to irrational numbers	1	
	1.7 Proof of irrationality of √2 and √3	1	
	1.8 The square root spiral	1	
	Problem discussion with extra questions	1	
Activity	Spiral root activity	1	
3. Chapter 4	**Exploring Algebraic Identities**		(10 periods)
	4.1 Algebraic identities	1	04.05.2026 to 15.05.2026
	4.2 Visualising identities using geometrical models	1	
	4.3 Factorisation of algebraic expressions using identities	2	
	4.4 More identities and their applications	1	
	4.5 Visualising factorisation of quadratic expressions through algebra tiles and without using algebra tiles	2	
	4.6 Finding new identities	1	
	4.7 Simplifying rational expressions	1	
	Problem discussion with extra questions	1	

Activity	Verification of Algebraic Identities		
4. Chapter 5	**Linear Equations in Two Variables**		10 periods
	5.1 Introduction to linear equations in two variables through practical examples	1	18.05.2026 to 29.05.2026
	5.2 Solution of linear equation in two variables: graphical representation, slope-intercept form	1	
	5.4 Pair of linear equations in two variables	1	
	5.5 Graphical method for solving a pair of linear equations in two variables	2	
	5.6 Nature of solutions: consistency and inconsistency	1	
	5.7 Algebraic methods of solving a pair of linear equations: substitution and elimination method	2	
	Problem discussion with extra questions	2	
5. Chapter 6	**Coordinate Geometry**		6 periods
	6.1 Brief history of coordinate geometry	1	01.07.2026 to 08.07.2026
	6.2 The 2-D Cartesian coordinate system	1	
	6.3 Distance between two points in the 2-D plane	2	
	6.4 Midpoint of the line segment between two points in the 2-D plane	1	
	Problem discussion with extra questions	1	
Activity	To find the values of abscissae and ordinates of various points given in a cartesian plane.		
6. Chapter 7	**Introduction to Euclid's Geometry: Axioms and Postulates**		4 periods
	7.1 History of geometry, Discovering Euclid's definitions	1	08.07.2026 to 14.07.2026
	7.2 Constructing a square with a given side as described in the Baudhayana's Sulbasutras	1	
	7.3 Axioms: Axioms of measurement and rules for geometric objects	1	
	Problem discussion with extra questions	1	
7. Chapter 8	**Lines and Angles**		(10) Periods
	8.1 Rays and angles	1	15.07.2026 to 27.07.2026 ***(II Weekly test on 20th July,2026)**
	8.2 Measures of angles	1	
	8.3 Intersecting lines and angles	1	
	8.4 Pairs of angles	1	
	8.5 Theorems and examples on intersecting lines	2	
	8.6 Theorems and examples on parallel lines	2	
	Problem discussion with extra questions	1	
		1	
8. Chapter 9	**Triangles: Congruence Theorems**		(10) Periods
	9.1 Practical applications of triangles	1	28.07.2026 to 7.08.2026
	9.2 Proofs of conditions of congruence of triangles	2	
	9.3 Theorems on triangles	2	
	9.4 Propositions and their converse	2	
	9.5 Problems based on applications of theorems on triangles	2	

Activity	To verify experimentally the different criteria for congruency of triangles	1	
9. Chapter 10	**4-gons (Quadrilaterals)**		(11) Periods
	10.1 Properties of parallelograms	2	10.08.2026 To 21.08.2026
	10.2 Important theorems related to parallelograms and their proof	3	
	10.3 Midpoint theorem and its applications	2	
	10.4 Understanding the notion of central symmetry in the context of parallelograms	2	
	Problem discussion with extra questions	1	
Activity	To verify experimentally that the sum of the angles of a quadrilateral is 360^0.	1	
10. Chapter 11	**Circles**		(12) Periods
	11.1 Practical applications and uses of circles	1	
	11.2 Definitions related to a circle — centre, diameter, and radius	1	24.08.2026 to 4.9.2026
	11.3 Chords and the angles they subtend	1	
	11.4 Midpoints and perpendicular bisectors of chords	2	
	11.5 Distance of chords from the centre	2	
	11.6 Subtended angles by an arc	2	
	11.7 Cyclicity of points	1	
	Problem discussion with extra questions	1	
Activity	To verify that the angles in the same segment of a circle are equal.	1	
	Revision for Half yearly exam II Week of September,2026 onwards		
11. Chapter 3	**Sequences and Progressions**		(12) Periods
	3.1 Introduction to sequences	1	1.10.2026 to 15.10.2026
	3.2 Explicit or general rule of a sequence	1	
	3.3 Recursive rule of a sequence	1	
	3.4 Arithmetic Progressions	1	
	3.5 (AP): nth term, visualising an AP, and practical contexts leading to Aps	1	
	3.6 Sum of the first n natural numbers	1	
	3.7 Geometric Progressions (GP): nth term, visualising a GP, and practical contexts leading to GPs	2	
	3.8 Applications of GP in fractals	1	
	3.9 Tower of Hanoi puzzle	1	
	Problem discussion	1	
Activity	To identify Arithmetic Progressions in some given lists of numbers (patterns).	1	
12. Chapter 12	**Mensuration : Area and Perimeter**		(13) Periods
	12.1 Perimeter of shapes	1	16.10.2026 to 04.11.2026
	12.2 Perimeter of a circle: Introduction to Pi and its irrationality	1	
	12.3 Length of an arc	1	
	12.4 Area of shapes: rectangles, parallelograms, and triangles	2	
	12.5 Heron's formula	2	
	12.6 Squaring a rectangle: Proof from Baudhayana's	1	

	Sulbasutras		
	12.7 Area of a circle: derivation	1	
	12.8 Area of the sector of a circle	1	
	12.9 Brahmagupta's formula for area of a cyclic 4-gon	1	
	12.10 Heron's formula as a special case of Brahmagupta's formula	1	
	Problem discussion	1	
Activity	To find the formula for the area of a trapezium experimentally		
13. Chapter 13	**Mensuration : Surface Area and Volume**		(7) Periods
	13.1 Surface areas and volumes of spheres (including hemispheres)	2	05.10.2026 to 15.11.2026
	13.2 Surface areas and volumes of right circular cones	2	
	Problem discussion	2	
Activity	To form a cube and find the formula for its surface area experimentally.	1	
14. Chapter 14	**Statistics**		(10) Periods
	15.1 Graphical representation of data	4	16.11.2026 to 02.12.2026
	15.2 Measures of central tendency	2	
	15.3 Mean, Median and Mode	3	
	Problem discussion	1	
15. Chapter 15	**Introduction to Probability**		(09) Periods
	Concept of probability and randomness	1	02.11.2026 to 18.12.2026 ***(Periodic test on Dec,2026 - Revision)**
	The probability scale	1	
	Empirical probability: analysing statistical data and performing experiments	2	
	Theoretical probability: sample space and events	2	
	Representing probability through tree diagrams and tables	2	
	Problem discussion	1	
	REVISION OF ALL ACTIVITIES AND CONCEPS RELATED TO THEM		
	REVISION FOR ANNUAL EXAM		
	MOCK TEST (IN THE MONTH OF JANUARY, 2027)		
ANNUAL EXAMINATION (II WEEK OF FEBRUARY)			