

**CBSE · CLASS 10**

Mathematics (Standard / Basic)

Official 2024–25/2026 CBSE Class X Mathematics curriculum focusing on Real Numbers, Polynomials, Linear & Quadratic Equations, Arithmetic Progressions, Coordinate Geometry, Triangles, Circles, Trigonometric Identities, Mensuration, and Statistics/Probability.

Board: Central Board of Secondary Education**Theory:** 80 Marks**Internal/Practical:** 20 Marks**Exam Duration:** 3 Hours

UNIT-WISE SYLLABUS & MARKS BREAKDOWN

UNIT	CHAPTERS & PRESCRIBED TOPICS	MARKS
Unit I	Number Systems Real Numbers: Fundamental Theorem of Arithmetic (statements after reviewing work done earlier and after illustrating and motivating through examples), Proofs of irrationality of $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$	06
Unit II	Algebra Polynomials (Zeros, Relationship between zeros and coefficients of quadratic polynomials); Pair of Linear Equations in Two Variables (Graphical and algebraic solution methods: Substitution and Elimination); Quadratic Equations (Standard form $ax^2+bx+c=0$, solutions by factorisation and quadratic formula, nature of roots); Arithmetic Progressions (Motivation, nth term, sum of first n terms, practical life applications)	20
Unit III	Coordinate Geometry Lines (In two-dimensions): Review of concepts, Distance Formula, Section Formula (internal division only)	06
Unit IV	Geometry Triangles: Definitions, examples, counter-examples; Proof of Basic Proportionality Theorem (Thales Theorem) and applications; Circles: Tangent to a circle at point of contact, Proof that tangents from an external point to a circle are equal	15
Unit V	Trigonometry Introduction to Trigonometry: Trigonometric ratios of acute angle of a right-angled triangle; Trigonometric Identities: Proof and application of $\sin^2 A + \cos^2 A = 1$; Heights and Distances: Angles of elevation & depression (30° , 45° , 60°), simple 2-triangle problems	12
Unit VI	Mensuration Areas Related to Circles: Area of sectors and segments of a circle (central angles 60° , 90° , 120°); Surface Areas and Volumes: Surface areas and volumes of combinations of solids (cubes, cuboids, spheres, hemispheres, right circular cylinders/cones)	10
Unit VII	Statistics & Probability	11

UNIT	CHAPTERS & PRESCRIBED TOPICS	MARKS
	Statistics: Mean, Median, and Mode of grouped data (bimodal situations avoided); Probability: Classical definition of probability, simple problems on finding probability of an event	

INTERNAL / PRACTICAL ASSESSMENT SCHEME (20 MARKS)

EVALUATION COMPONENT	MARKS WEIGHTAGE
Periodic Tests Pen-paper unit examinations across academic terms	05 Marks
Multiple Assessment Short tests, quizzes, oral test, assignments	05 Marks
Portfolio Classwork maintenance, student work, reflection	05 Marks
Subject Enrichment Activities Math Lab practicals & activities from NCERT lab manual	05 Marks

RECOMMENDED REFERENCE LITERATURE

Prescribed Textbooks: NCERT Mathematics Class 10, NCERT Exemplar Class 10, Excellence Board Exam Drill Books

The Excellence Tuition Edge

Every unit in this curriculum is taught with structured conceptual lectures, followed by weekly speed-testing, detailed mistake analysis, and dedicated 1:1 doubt-clearing sessions to build board exam confidence.