



CBSE · CLASS 9

Mathematics

Provides rigorous foundations in axiomatic geometry (Euclid's geometry, triangles, circles), coordinate plane, polynomials, and surface area & volume formulas.

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, Representation of terminating/non-terminating recurring decimals, Laws of exponents with integral powers, Rationalisation of surds	10
Unit II	Algebra Polynomials: Definition, zeroes of polynomial, Remainder & Factor Theorem, Algebraic Identities (up to cubic identities); Linear Equations in Two Variables (Graphical solutions)	20
Unit III	Coordinate Geometry Cartesian plane, coordinates of a point, plotting points in the plane	04
Unit IV	Geometry Introduction to Euclid's Geometry, Lines and Angles, Triangles (Congruence criteria SAS, ASA, SSS, RHS), Quadrilaterals (Mid-point theorem), Circles (Chords, Angles subtended at centre & arc, Cyclic quadrilaterals)	27
Unit V	Mensuration Areas: Heron's Formula (without proof); Surface Areas and Volumes of Spheres, Hemispheres, and Right Circular Cones	13
Unit VI	Statistics Bar graphs, Histograms (with varying base lengths), Frequency Polygons	06

INTERNAL / PRACTICAL ASSESSMENT SCHEME (20 MARKS)

EVALUATION COMPONENT	MARKS WEIGHTAGE
Periodic Written Tests Best 2 of 3 periodic tests	10 Marks
Portfolio & Subject Enrichment Lab practicals, journal, assignment sheets	10 Marks

RECOMMENDED REFERENCE LITERATURE

Prescribed Textbooks: NCERT Mathematics Class 9, NCERT Exemplar Problems, Excellence Comprehensive Test Papers

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.

Excellence Tuition Centres: Sarsuna (Opp. High School) · Joka · Chatterjee Para (Behala)

Admissions & Inquiries: +91 89022 70803 · excellence-tuition.vercel.app