



CBSE · CLASS 8

Mathematics

Core middle-school curriculum preparing students for high school algebra, rational number systems, practical geometry, factorisation, and mensuration.

Board: Central Board of Secondary Education

Theory: 80 Marks

Internal/Practical: 20 Marks

Exam Duration: 2½ Hours

UNIT-WISE SYLLABUS & MARKS BREAKDOWN

UNIT	CHAPTERS & PRESCRIBED TOPICS	MARKS
Chapter 1	Rational Numbers Properties (Closure, Commutativity, Associativity, Distributivity), Representation on number line	08
Chapter 2	Linear Equations in One Variable Solving linear equations with variables on one and both sides, practical word applications	10
Chapter 3	Understanding Quadrilaterals Polygons, interior & exterior angle properties, parallelograms, rectangles, rhombus, squares	10
Chapter 4	Data Handling Organising data, frequency distribution, histograms, pie charts, elementary probability	08
Chapter 5	Squares and Square Roots Properties of square numbers, prime factorisation method, division method for square roots	08
Chapter 6	Cubes and Cube Roots Cube numbers, prime factorisation method for finding cube roots	06
Chapter 7	Comparing Quantities Ratios, percentages, profit & loss, discount, sales tax/GST, Compound Interest formula	10
Chapter 8	Algebraic Expressions and Identities Terms, factors, coefficients, addition & multiplication, standard identities: $(a+b)^2$, $(a-b)^2$, a^2-b^2	10
Chapter 9	Mensuration Area of trapezium and general quadrilaterals; Surface area and volume of cube, cuboid, and cylinder	10

INTERNAL / PRACTICAL ASSESSMENT SCHEME (20 MARKS)

EVALUATION COMPONENT	MARKS WEIGHTAGE
Formative Tests & Classwork Continuous written assessments and quizzes	10 Marks
Math Lab Portfolio Mathematical modeling, project sheets, viva	10 Marks

RECOMMENDED REFERENCE LITERATURE

Prescribed Textbooks: NCERT Mathematics Class 8, RS Aggarwal, Excellence Conceptual Math Drills

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