



ICSE · CLASS 8

Mathematics

Upper primary CISCE curriculum establishing advanced preparation for ICSE Class 9 & 10 in Commercial Mathematics, Algebra, Geometry, Mensuration, and Statistics.

Board: Council for the Indian School Certificate Examinations

Theory: 80 Marks

Internal/Practical: 20 Marks

Exam Duration: 2½ Hours

UNIT-WISE SYLLABUS & MARKS BREAKDOWN

UNIT	CHAPTERS & PRESCRIBED TOPICS	MARKS
Theme 1	Number System Rational Numbers: representation, operations, properties; Exponents & Powers: positive and negative integral exponents, laws; Squares, Square Roots, Cubes and Cube Roots; Playing with Numbers	18
Theme 2	Ratio and Proportion Ratio, proportion, unitary method, direct and inverse variation, percentages, profit, loss and discount, simple and compound interest	16
Theme 3	Algebra Fundamental algebraic concepts, operations on polynomials, algebraic identities: $(a \pm b)^2$, $a^2 - b^2$, factorisation of polynomials by grouping and identities, linear equations and in 자신이 inequations in one variable	18
Theme 4	Geometry Triangles (properties, congruency criteria), Understanding Quadrilaterals (trapezium, parallelogram, rhombus, rectangle, square), Constructions (triangles, quadrilaterals), Circles basics	14
Theme 5	Mensuration Perimeter and Area of plane figures (triangles, rectangles, parallelograms, circles, sectors); Surface area and volume of cube, cuboid, and right circular cylinder	08
Theme 6	Data Handling Collection and organisation of data, frequency tables, bar graphs, double bar graphs, pie charts, simple probability	06

INTERNAL / PRACTICAL ASSESSMENT SCHEME (20 MARKS)

EVALUATION COMPONENT	MARKS WEIGHTAGE
Internal Tests & Assignments School assessments based on CISCE guidelines	10 Marks

EVALUATION COMPONENT	MARKS WEIGHTAGE
Project Work / Lab Journal Mathematical chart work, practical geometry notebook	10 Marks

RECOMMENDED REFERENCE LITERATURE

Prescribed Textbooks: Concise Mathematics Class 8 (Selina / RK Bansal), ML Aggarwal ICSE Mathematics, Excellence Middle School Drill Sheets

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