

Class 7 (Transition to Subject-Specific Learning)

Subject	Core Topics for Examination
Maths	Integers, Fractions & Decimals, Algebraic Expressions , Ratio and Proportion, Basic Geometry (Lines, Angles, Triangles, Quadrilaterals), Perimeter and Area, Data Handling (Bar Graphs), Simple Equations, Exponents and Powers, Introduction to Square/Cube Roots.
Science	Physics: Motion, Force & Pressure, Heat, Light (Reflection), Electric Current. Chemistry: Separation of Substances, Change (Physical & Chemical), Acids, Bases & Salts, Synthetic Fibres & Plastics. Biology: Food Production, Cell Structure, Respiration, Reproduction in Plants, Microorganisms.
English	Grammar (Advanced Tenses, Modals, Active/Passive Voice, Direct/Indirect Speech, Determiners, Clauses), Comprehension (Unseen Passages, Inference questions), Writing Skills (Letters, Notice, Short Essay/Article), Vocabulary.

Class 7 (Intermediate & Analytical Thinking)

Students in this group can handle more abstract concepts and relational logic.

Subject Area	Core Topics	High-Level Focus (for Exam)
Verbal Reasoning	Blood Relations (Family Tree diagrams), Direction Sense Test (multiple turns and distance), Coding-Decoding (complex patterns using mixed operations or position values), Syllogism (Basic statements like "All A are B").	Complex family trees and multi-directional movement problems.
Non-Verbal Reasoning	Water/Mirror Images, Paper Folding/Cutting , Figure Series Completion, Embedded Figures, Figure Matrix, Cubes and Dice (finding opposite faces).	Two-fold changes in Paper Folding and challenging Dice visualization .
Quantitative Aptitude	Averages, Ratio & Proportion (age problems, mixture problems), Time & Work (basic), Percentage, Profit & Loss (basic), Calendar (finding the day of a given date).	Questions that combine Ratio, Percentage, and Profit/Loss to solve a single problem.