

Class 9 (High School Level & Core of Exam)

Subject	Core Topics for Examination
Maths	Number Systems (Real Numbers), Polynomials, Linear Equations (in 2 Variables), Quadratic Equations, Geometry (Triangles, Circles, Area related to Circles), Coordinate Geometry, Trigonometry (Ratios, Identities, Heights & Distances), Surface Areas & Volumes, Statistics & Probability.
Science	Physics: Motion, Force & Laws of Motion, Gravitation, Work & Energy, Sound, Light (Reflection & Refraction), Electricity , Magnetic Effects of Electric Current. Chemistry: Chemical Reactions & Equations, Acids, Bases & Salts, Metals & Non-Metals, Carbon & its Compounds. Biology: Life Processes (Nutrition, Respiration, Circulation, Excretion), Control & Coordination, Reproduction, Heredity & Evolution, Our Environment.
English	Grammar (Advanced structures), Reading Comprehension (Factual, Discursive, Case-based - including inferential and critical questions), Advanced Writing Skills (Formal/Informal Letters, Analytical Paragraphs, Article Writing, Story Writing), Literature (Themes and critical appreciation from NCERT prescribed texts).

Class 9 (Advanced & Critical Reasoning)

This section must test **critical thinking**, matching the level of preliminary competitive exams like NTSE or Olympiads.

Subject Area	Core Topics	High-Level Focus (for Exam)
Verbal Reasoning	Seating Arrangements (Linear/Circular), Statement and Assumption/Conclusion/Argument , Syllogism (with 3 or more statements), Critical Reasoning, Input-Output Tracing.	Complex Seating Puzzles (with conditions and variables) and in-depth Critical Reasoning requiring evaluation of logical strength.
Non-Verbal Reasoning	Advanced Pattern Series (involving geometric progression), Figure Grouping, Data Sufficiency (determining if given facts are enough to solve), Visualizing 3D structures (Unfolding Cubes/Cuboids).	High-complexity figure matrix and spatial visualization under time pressure.

Subject Area	Core Topics	High-Level Focus (for Exam)
Quantitative Aptitude	Advanced Time & Work (Pipes & Cisterns, chain rule), Time, Speed & Distance (Boats/Streams, Trains, Circular tracks), Permutation & Combination (basic), Probability (advanced), Simple & Compound Interest.	Problems requiring algebraic application to core aptitude topics (e.g., quadratic equations in Age problems).