

SCO INTERNATIONAL OLYMPIAD

CLASS 7 MENTAL ABILITY OLYMPIAD SYLLABUS

Official syllabus and preparation pathway for Class 7 learners

Designed from Class 7 Mental Ability pathways and aligned with SCO's guided preparation, practice, reporting, and future-ready reasoning growth.

- age-fit reasoning guidance for Class 7 learners globally
- chapter-wise pathways across verbal, non-verbal, numerical, calendar, and spatial reasoning
- preparation roadmap and assessment blueprint for teachers, parents, and students

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|----------|---------|----------|---------|-----------|
| Series | Coding | Alphabet | Puzzles | Reasoning |
| Calendar | Ranking | Cubes | Verbal | Achievers |

Official Syllabus Overview

The SCO International Mental Ability Olympiad Class 7 syllabus is designed to strengthen logical reasoning, pattern recognition, verbal reasoning, numerical thinking, spatial analysis, and structured problem solving. The paper encourages students to reason carefully rather than memorize answers.

| Chapter No. | Chapter Name | Learning Scope |
|-------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 1 | Series Completion | Number, letter, mixed, and pattern-based series; missing terms; wrong-term identification; multi-step progressions. |
| 2 | Coding and Decoding | Letter shifting, mirror coding, symbol coding, number-letter coding, and multi-rule code formation. |
| 3 | Alphabet Test | Dictionary order, letter positions, alphabet operations, word formation, and relative-position questions. |
| 4 | Mathematical Operations | Custom symbols, arithmetic logic, equations, comparison reasoning, averages, ratios, and word-based operations. |
| 5 | Puzzle Test | Seating/ordering, schedules, sorting, constraints, comparison puzzles, and structured arrangements. |
| 6 | Calendar Test | Days, dates, leap years, month offsets, odd days, and real-life scheduling problems. |
| 7 | Number, Ranking and Time Sequence | Ranks from top/bottom, ordering by time/score, sequence-based comparisons, and tie conditions. |
| 8 | Arithmetical Reasoning | Age, money, speed, distance, revenue, donations, penalties, and everyday quantitative reasoning. |
| 9 | Blood Relations | Family relations, coded relations, generational reasoning, uncle/aunt/cousin relationships, and relation diagrams. |
| 10 | Cubes and Dices Test | Painted cubes, dice orientation, exposed faces, counting corner/edge/face cubes, and spatial visualization. |
| 11 | Verbal Reasoning | Logical statements, conclusions, analogies, classification, assumptions, and deductive reasoning. |

Exam Blueprint

| Section | Question Count | Focus |
|-----------------------------|----------------|---------------------------------------------------------------------------------------|
| General Reasoning | 20 Questions | Series, coding, alphabet, operations, ranking, direction, and family-relation basics. |
| Reason and Assertion | 10 Questions | Conceptual reasoning statements and explanation-based logic. |
| Case Study / Data Reasoning | 10 Questions | Short passages, tables, schedules, and multi-step real-life reasoning. |
| Achievers Section | 10 Questions | Higher-order, multi-concept, time-bound reasoning questions. |

Preparation Guidance

- Practice one reasoning type at a time, then revise through mixed worksheets.
- For coding and alphabet questions, write the alphabet positions beside the question before solving.
- For calendar questions, calculate offsets using multiples of 7 to avoid counting errors.
- For cubes and dice, draw a small rough cube and mark corner, edge, and face-center positions.
- For case-study questions, underline the actual question before solving the passage data.