School Connect Online

SCO INTERNATIONAL MENTAL ABILITY OLYMPIAD

CLASS 5 SYLLABUS

Official Syllabus, Learning Outcomes and Preparation Framework

Designed for Grade 5 reasoning development across verbal, non-verbal, numerical, spatial, calendar, ranking and puzzle-based skill areas.

- chapter-wise learning outcomes for students, teachers, and parents
- preparation roadmap for structured practice and revision
- globally useful reasoning skills for problem-solving and future-ready learning

Series	Coding	Alphabet	Operations	Puzzles
AI	Entrepreneurship	GK	Calendar	Ranking

SCO International Mental Ability Olympiad - Class 5 Official Syllabus

This syllabus builds age-appropriate logical reasoning, quantitative reasoning, spatial awareness, verbal reasoning and problem-solving skills for Grade 5 learners. It is designed for school-level enrichment, Olympiad readiness, and confident reasoning practice.

Recommended PDF-Ready Typography

H2: 16 pt | H3: 13 pt | Body: 10 pt | Tables and option text: 10 pt. These sizes are suitable for Word-to-PDF conversion and online viewing.

Chapter-Wise Syllabus and Learning Outcomes

Chapter	Chapter Name	Learning Focus	Student Can Do
1	Series Completion	Recognize growing, shrinking, alternating and mixed number/letter patterns; explain the rule clearly.	Apply the concept in MCQs, short reasoning tasks, table/figure questions, and explanation-based practice.
2	Coding and Decoding	Use alphabet shifts, mirror codes, number-letter mapping and multi-step codes in age-appropriate situations.	Apply the concept in MCQs, short reasoning tasks, table/figure questions, and explanation-based practice.
3	Alphabet Test	Apply dictionary order, letter position, missing alphabet and word-formation reasoning.	Apply the concept in MCQs, short reasoning tasks, table/figure questions, and explanation-based practice.
4	Mathematical Operations	Interpret coded operations, brackets, arithmetic order and simple equation-based reasoning.	Apply the concept in MCQs, short reasoning tasks, table/figure questions, and explanation-based practice.
5	Puzzle Test	Solve arrangement, comparison, direction and condition-based puzzles using organized reasoning.	Apply the concept in MCQs, short reasoning tasks, table/figure questions, and explanation-based practice.
6	Calendar Test	Find weekdays using odd days, month lengths and simple leap-year awareness.	Apply the concept in MCQs, short reasoning tasks, table/figure questions, and explanation-based practice.
7	Number - Ranking - Time Sequence	Use rank-from-top/bottom, order, schedules, time intervals and sequence placement.	Apply the concept in MCQs, short reasoning tasks, table/figure questions, and explanation-based practice.
8	Arithmetical Reasoning	Solve age, money, ratio, average, probability and everyday word problems.	Apply the concept in MCQs, short reasoning tasks, table/figure questions, and explanation-based practice.
9	Blood Relations	Interpret family statements, coded relations and generation-based logic.	Apply the concept in MCQs, short reasoning tasks,

			table/figure questions, and explanation-based practice.
10	Cubes and Dices Test	Identify painted faces, corner/edge/face cubes, rotations and simple cube-view reasoning.	Apply the concept in MCQs, short reasoning tasks, table/figure questions, and explanation-based practice.
11	Verbal Reasoning	Work with odd-one-out, analogy, classification, conclusions and basic logical statements.	Apply the concept in MCQs, short reasoning tasks, table/figure questions, and explanation-based practice.

Skill Development Plan

Foundation Practice: Start with number and letter series, basic coding, alphabet order, simple operations, and easy family relationships.

Applied Reasoning: Move to calendars, rankings, directions, cube counting, multi-step puzzles, and tabular information.

Achievers Practice: Use longer case-based questions, mixed reasoning rules, real-life time/money problems, and visual reasoning prompts.

Review Method: Students should explain why the correct option works and why the other options do not work.

Assessment Blueprint

Section	Question Type	Recommended Weight	Purpose
General Reasoning	Series, coding, alphabet, arithmetic, relation and ranking	40%	Build core accuracy and confidence
Case-Based Reasoning	Tables, short stories, schedules, cubes and sequences	20%	Connect reasoning with real-life contexts
Assertion/Reason or Statement Logic	True reasoning, explanations and conclusion checking	20%	Develop logical justification
Achievers Section	Multi-step, mixed-concept and challenge tasks	20%	Support higher-order problem solving

Preparation Guidance for Teachers and Parents

- Use puzzles, grids, calendars, family-tree sketches and cube drawings during practice.
- Encourage children to write the rule before choosing the option.
- Use wrong options as learning prompts; ask students which condition each wrong option violates.
- Keep practice short but regular: 20-25 minutes of focused reasoning is more effective than long memorization sessions.