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SCO INTERNATIONAL OLYMPIAD

GRADE 3 SYLLABUS

SCO International Mental Ability Olympiad - Official Class 3 Syllabus

Designed from Grade 3 reasoning pathways and aligned with SCO preparation, practice, reporting, and future-ready thinking skills.

- age-fit mental ability syllabus for Grade 3 / primary-level learners globally
- chapter-wise outcomes across patterns, figures, alphabet, coding, ranking, direction, and visual logic
- preparation guidance with free learning-material orientation for SCO International Olympiad learners

Maths	English	Science	Mental Ability	Finance Knowledge
AI	Entrepreneurship	GK	Coding	Life Skills

Official Syllabus - SCO International Mental Ability Olympiad Class 3

This syllabus is designed for Grade 3 learners and develops observation, comparison, pattern recognition, spatial thinking, direction sense, coding-decoding, and early logical reasoning. International primary curricula commonly emphasise pattern extension and spatial/geometric reasoning at Grade 3 level, and this SCO syllabus translates those skills into Olympiad-style practice.

Syllabus Information

Field	Details
Olympiad Name	SCO International Mental Ability Olympiad
Class / Grade	Class 3
Subject	Mental Ability
Recommended Duration	Year-round preparation with weekly reasoning practice
Assessment Nature	Multiple-choice reasoning, visual logic, case-based reasoning, and achiever-level puzzles

Core Learning Outcomes

- Identify, extend, and explain simple numeric and visual patterns.
- Compare shapes and figures using clear properties such as sides, corners, orientation, symmetry, and grouping rules.
- Use alphabet order and simple letter-position logic to solve missing-letter and coding questions.
- Solve ranking, direction, and arrangement questions using step-by-step reasoning.
- Interpret mirror images, water images, and figure matrices with careful observation.
- Read short case-based reasoning situations and choose the most logical answer.

Chapter-wise Syllabus

Chapter No.	Chapter Name	Learning Focus	Practice Expectations
1	Patterns	Recognise repeating, growing, and shrinking patterns in numbers, shapes, colours, and simple arrangements.	Solve MCQs, explain the pattern/rule, and practise with diagrams or short story-based reasoning.
2	Figure Matrix	Observe rows and columns in figure grids and identify the missing figure using shape, size, colour, and position logic.	Solve MCQs, explain the pattern/rule, and practise with diagrams or short story-based reasoning.
3	Grouping of Figures	Classify figures by common properties such as shape family, number of sides, symmetry, rotation, and internal markings.	Solve MCQs, explain the pattern/rule, and practise with diagrams or short story-based reasoning.
4	Alphabet Test	Use alphabet order, reverse order, missing letters, letter	Solve MCQs, explain the pattern/rule, and practise

Chapter No.	Chapter Name	Learning Focus	Practice Expectations
		positions, and simple alphabetical arrangements.	with diagrams or short story-based reasoning.
5	Analogy and Classification	Compare relationships such as part-whole, object-use, animal-young one, shape-property, and odd-one-out classification.	Solve MCQs, explain the pattern/rule, and practise with diagrams or short story-based reasoning.
6	Ranking Test	Solve simple rank-from-top, rank-from-bottom, before-after, and line-position problems.	Solve MCQs, explain the pattern/rule, and practise with diagrams or short story-based reasoning.
7	Coding Decoding	Apply simple forward shifts, backward shifts, mirror letters, and word formation rules.	Solve MCQs, explain the pattern/rule, and practise with diagrams or short story-based reasoning.
8	Geometrical Shapes	Identify 2D and 3D shapes, sides, corners, faces, edges, vertices, simple symmetry, and basic shape properties.	Solve MCQs, explain the pattern/rule, and practise with diagrams or short story-based reasoning.
9	Mirror Images and Water Images	Understand left-right reversal, top-bottom reflection, and common symmetrical letters and figures.	Solve MCQs, explain the pattern/rule, and practise with diagrams or short story-based reasoning.
10	Direction Sense Test	Use North, South, East, West, left/right turns, and simple movement paths to find final direction or position.	Solve MCQs, explain the pattern/rule, and practise with diagrams or short story-based reasoning.
11	Logical Sequence of Words	Arrange words in natural, chronological, dictionary, or process order and identify correct logical sequence.	Solve MCQs, explain the pattern/rule, and practise with diagrams or short story-based reasoning.

Chapter Details and Preparation Guidance

Chapter 1: Patterns

What students will learn: Recognise repeating, growing, and shrinking patterns in numbers, shapes, colours, and simple arrangements.

Practice approach: Use beads, numbers, shapes, and colour sequences. Ask students to say the rule before choosing the answer.

Chapter 2: Figure Matrix

What students will learn: Observe rows and columns in figure grids and identify the missing figure using shape, size, colour, and position logic.

Practice approach: Look row-wise and column-wise. Compare shape, size, fill, rotation, count, and position.

Chapter 3: Grouping of Figures

What students will learn: Classify figures by common properties such as shape family, number of sides, symmetry, rotation, and internal markings.

Practice approach: Sort figures by common features and explain why one figure belongs or does not belong to a group.

Chapter 4: Alphabet Test

What students will learn: Use alphabet order, reverse order, missing letters, letter positions, and simple alphabetical arrangements.

Practice approach: Practise forward and backward alphabet order, missing letters, and letter positions using a simple alphabet strip.

Chapter 5: Analogy and Classification

What students will learn: Compare relationships such as part-whole, object-use, animal-young one, shape-property, and odd-one-out classification.

Practice approach: Build relationship vocabulary such as same/opposite, part/whole, animal/young one, tool/use, and shape/property.

Chapter 6: Ranking Test

What students will learn: Solve simple rank-from-top, rank-from-bottom, before-after, and line-position problems.

Practice approach: Use small line diagrams and the formula: rank from bottom = total - rank from top + 1.

Chapter 7: Coding Decoding

What students will learn: Apply simple forward shifts, backward shifts, mirror letters, and word formation rules.

Practice approach: Start with one-step letter shifts, then practise mirror-letter and mixed code patterns.

Chapter 8: Geometrical Shapes

What students will learn: Identify 2D and 3D shapes, sides, corners, faces, edges, vertices, simple symmetry, and basic shape properties.

Practice approach: Use real objects to identify sides, corners, faces, edges, and vertices of familiar shapes.

Chapter 9: Mirror Images and Water Images

What students will learn: Understand left-right reversal, top-bottom reflection, and common symmetrical letters and figures.

Practice approach: Use folded paper, transparent sheets, and mirror practice to understand reversal of positions.

Chapter 10: Direction Sense Test

What students will learn: Use North, South, East, West, left/right turns, and simple movement paths to find final direction or position.

Practice approach: Use floor grids or classroom movement games to practise left, right, turns, and final direction.

Chapter 11: Logical Sequence of Words

What students will learn: Arrange words in natural, chronological, dictionary, or process order and identify correct logical sequence.

Practice approach: Arrange daily-life events, dictionary-order words, and process steps in correct order.

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Suggested Assessment Blueprint

Area	Suggested Questions	Marks	Purpose
General Mental Ability	20	20	Core reasoning and observation
Statement / Assertion Logic	5	5	Concept checking and logical validation
Case-based Reasoning	5	5	Application in short stories or classroom situations
Achievers Section	5	10	Higher-order multi-step reasoning

Preparation Roadmap

Weeks 1-3: Patterns, alphabet order, simple classification

Weeks 4-6: Figures, matrices, grouping, mirror and water images

Weeks 7-9: Ranking, direction sense, coding-decoding, word sequence

Weeks 10-12: Mixed practice papers, error correction, and timed revision

Free Learning Support Note

SCO International Olympiad provides preparation pathways, practice support, and learning materials to help students understand concepts before attempting exam-style questions. Schools and parents can use this syllabus as a chapter-wise preparation checklist.