School Connect Online

SCO INTERNATIONAL MATHS OLYMPIAD

CLASS 3 SYLLABUS

A comprehensive syllabus guide for schools, teachers, parents, and students

Designed from Class 3 Maths syllabus pathways and aligned with SCO's preparation flow for guided practice, classroom support, reporting, and future-ready numeracy growth.

- age-fit learning guidance for Class 3 / primary-level learners globally
- subject focus across Number Sense, Calendar & Time, Money, Measurement, Geometry, and Operations
- preparation roadmap, chapter learning outcomes, and practice direction for student readiness and school implementation

Number Sense	Calendar & Time	Money	Length	Weight
Capacity	Geometry	Operations	Practice	Readiness

SCO International Maths Olympiad - Class 3 Syllabus

A practical syllabus guide for students, teachers, parents, and schools

Purpose of this syllabus guide

- Provides a clear chapter-wise roadmap for Class 3 Maths Olympiad preparation.
- Helps students understand what to learn, teachers understand what to teach, and schools plan structured preparation.
- Builds age-appropriate numeracy, measurement, geometry, reasoning, and everyday problem-solving readiness.

Syllabus at a Glance

Chapter	Topic	Core Focus	Olympiad Readiness
1	**Number Sense**	Numbers, place value, comparison, ordering, patterns, and estimation	Concept + accuracy + daily-life application
2	**Calendar and Time**	Days, weeks, months, calendar reading, clocks, duration, and schedules	Concept + accuracy + daily-life application
3	**Money**	Counting money, simple transactions, change, and value-based choices	Concept + accuracy + daily-life application
4	**Length**	Measuring, comparing, estimating, and using suitable length units	Concept + accuracy + daily-life application
5	**Weight**	Heavier/lighter ideas, common units, balance, and real-life comparison	Concept + accuracy + daily-life application
6	**Capacity**	More/less capacity, litres, millilitres, containers, and estimation	Concept + accuracy + daily-life application
7	**Geometry**	2D/3D shapes, sides, corners, symmetry, spatial thinking, and patterns	Concept + accuracy + daily-life application
8	**Operations**	Addition, subtraction, multiplication, division, mental maths, and word problems	Concept + accuracy + daily-life application

For Students

- Learn every concept with real-life examples before moving to speed practice.
- Use diagrams, objects, clocks, coins, rulers, and containers to understand ideas clearly.
- Practise reasoning questions where more than one step is required.

For Teachers and Schools

- Plan lessons chapter-wise with short concept checks after each subtopic.
- Include mixed worksheets that combine number skills with time, money, and measurement.
- Use weekly practice tests to build accuracy, confidence, and Olympiad readiness.

Class 3 Maths learning approach

- Move from concrete objects to pictures, and then to numbers and symbols.
- Connect every chapter with daily life: school timetable, classroom objects, market bills, water bottles, shapes, and games.
- Encourage students to show working steps, explain reasoning, and check whether an answer is reasonable.
- Use small but regular practice sessions to build accuracy without creating pressure.

Chapter-wise Syllabus Notes and Learning Outcomes

Each chapter is written for quick understanding by students, teachers, and schools

Chapter 1: Number Sense

Chapter Note: Number sense helps students understand numbers as values, positions, quantities, and patterns instead of only memorising counting. It is the foundation for every later maths chapter.

Learning Outcomes

- Read, write, compare, order, and expand numbers suitable for Class 3 level.
- Recognise place value and understand how a digit changes value by its position.
- Identify simple number patterns, missing numbers, odd/even numbers, and estimated answers.

Practice Direction: Use number lines, place-value blocks, skip-counting charts, and daily quantity comparisons.

Chapter 2: Calendar and Time

Chapter Note: Calendar and time develops practical thinking about days, weeks, months, clocks, duration, routines, and sequencing of events.

Learning Outcomes

- Read calendars to identify dates, days, months, leap-year ideas, and weekly/monthly patterns.
- Read clocks and solve simple problems involving hours, minutes, before/after, and duration.
- Apply time understanding to school routines, birthdays, travel, and event planning.

Practice Direction: Use classroom calendars, analogue clocks, timetable tasks, and story-based elapsed-time questions.

Chapter 3: Money

Chapter Note: Money introduces students to value, counting, addition/subtraction in transactions, and decision-making in everyday buying situations.

Learning Outcomes

- Count notes and coins and compare monetary values accurately.
- Solve simple buying, selling, total cost, and change-based word problems.
- Understand the difference between need, want, price, and sensible spending choices.

Practice Direction: Use pretend shops, price tags, shopping bills, and change-making games.

Chapter 4: Length

Chapter Note: Length builds measurement awareness through estimation, comparison, standard units, rulers, and real objects around the learner.

Learning Outcomes

- Compare objects using longer, shorter, taller, and smaller relationships.
- Use suitable units such as centimetre, metre, and kilometre in age-appropriate contexts.
- Estimate, measure, and solve daily-life problems involving length or distance.

Practice Direction: Use rulers, measuring tapes, classroom objects, map distances, and estimation challenges.

Chapter 5: Weight

Chapter Note: Weight supports practical comparison of objects and introduces students to mass as a measurable quantity used in home, school, markets, and science.

Learning Outcomes

- Identify heavier and lighter objects through observation and measurement.
- Use grams and kilograms for simple comparisons and real-life applications.
- Solve basic word problems involving addition or comparison of weights.

Practice Direction: Use balance-scale activities, grocery examples, and object-sorting by weight.

Chapter 6: Capacity

Chapter Note: Capacity helps students understand how much a container can hold and connects maths with water, milk, bottles, jars, and everyday measurement.

Learning Outcomes

- Compare containers using more, less, full, half-full, and empty ideas.
- Use litres and millilitres in simple contexts and choose suitable units.
- Solve everyday capacity problems involving totals, leftovers, and comparisons.

Practice Direction: Use bottles, cups, spoons, measuring jars, and estimation-before-measuring activities.

Chapter 7: Geometry

Chapter Note: Geometry strengthens visual reasoning by helping students recognise shapes, positions, symmetry, edges, corners, and patterns in objects around them.

Learning Outcomes

- Identify and describe common 2D and 3D shapes using sides, corners, faces, and edges.
- Recognise symmetry, simple patterns, tiling ideas, and spatial relationships.
- Apply shape knowledge to diagrams, puzzles, objects, and visual Olympiad questions.

Practice Direction: Use paper folding, shape sorting, building blocks, tangrams, grid drawings, and pattern puzzles.

Chapter 8: Addition, Subtraction, Multiplication, Division

Chapter Note: Operations help students combine, separate, group, share, and compare quantities. Strong operations skills support almost every Olympiad problem.

Learning Outcomes

- Perform age-appropriate addition, subtraction, multiplication, and division with accuracy.
- Understand multiplication as repeated addition and division as equal sharing or grouping.
- Solve multi-step word problems using the correct operation and clear reasoning.

Practice Direction: Use mental maths, story problems, arrays, equal groups, bar models, and mixed-operation worksheets.

Preparation Roadmap for Class 3 Maths Olympiad

Concept clarity first, then accuracy, then speed

Stage	Learning Focus	Suggested Action	Readiness Check
1. Understand	Meaning of concepts	Use objects, drawings, clocks, calendars, coins, rulers, and examples.	Can explain the concept in simple words.
2. Practise	Accuracy and method	Solve short exercises chapter-wise and correct mistakes immediately.	Can solve direct questions independently.
3. Apply	Word problems	Practise daily-life problems with one or two steps.	Can choose the correct operation or idea.
4. Challenge	Olympiad reasoning	Attempt mixed questions, pattern questions, and tricky options.	Can avoid traps and justify answers.
5. Review	Speed and confidence	Take timed practice tests and revise weak chapters.	Can complete the paper with calm focus.

Question Types to Include

- Direct concept questions for number, measurement, shape, time, and money.
- Reasoning questions with missing numbers, patterns, comparisons, and visual logic.
- Word problems based on classroom, market, travel, calendar, and home situations.
- Mixed-operation questions where students must decide the correct method.

Assessment Expectations

- Accuracy in basic calculations and unit recognition.
- Ability to read questions carefully and identify hidden information.
- Ability to explain the reason behind an answer.
- Confidence in solving unfamiliar but age-appropriate problems.

Implementation Guide for Students, Teachers, and Schools

A simple structure for classroom use, home practice, and Olympiad readiness

Weekly Learning Flow

Day	Focus	Classroom / Home Activity	Practice Output	Teacher / Parent Check
Day 1	Concept	Introduce the topic with examples and objects.	Concept notebook entry	Can the learner explain it?
Day 2	Skill	Solve direct questions and correct errors.	Chapter worksheet	Is the method accurate?
Day 3	Application	Solve story problems and daily-life tasks.	Word-problem set	Can the learner choose the operation?
Day 4	Reasoning	Attempt pattern, comparison, and visual questions.	Reasoning worksheet	Can the learner justify the answer?
Day 5	Review	Take a short timed quiz and revise mistakes.	Mini test score	Which chapter needs support?

Final readiness indicators

- Students can solve mixed questions without depending only on memorised methods.
- Students can use numbers, time, money, and measurement in familiar daily-life contexts.
- Students can identify shapes and patterns from pictures, objects, and diagrams.
- Students can show working steps clearly and check whether an answer is reasonable.
- Schools can use the guide as a chapter-wise preparation checklist for Class 3 Maths Olympiad readiness.

SCO Learning Message

Mathematics at Class 3 level should build confidence, curiosity, accuracy, and reasoning. Strong foundations in number sense, time, money, measurement, geometry, and operations prepare students for higher-level problem solving and for future academic growth.