School Connect Online

SCO INTERNATIONAL OLYMPIAD

CLASS 5 OFFICIAL SYLLABUS

MATHS OLYMPIAD

A clear, school-ready syllabus guide for educators, schools, teachers, parents, and students

Designed to explain the chapter structure, learning outcomes, and purpose of the Class 5 SCO International Maths Olympiad syllabus in an academic and globally useful format.

Number Systems	Decimals	Geometry	Profit & Loss
Data Handling	Simple Interest	Reasoning	

Class	Subject	Chapters	Document Type
5	Maths	8	Official syllabus

About this syllabus

Why this document matters for schools, teachers, parents, and students

What this syllabus explains

- what the Class 5 Maths Olympiad covers chapter by chapter
- what students are expected to learn and apply
- how the syllabus supports classroom and Olympiad readiness
- why the topics matter for stronger mathematical thinking

Why this syllabus is useful

- supports structured academic planning for schools and teachers
- helps parents understand the purpose behind each topic
- clarifies expected outcomes in a concise, practical way
- positions the Olympiad as a concept-based and future-ready pathway

Class 5 learner profile: At this stage, learners can move beyond basic arithmetic into applied mathematics, early commercial math, data interpretation, and structured reasoning. The syllabus therefore supports concept strength, speed, accuracy, and confidence through a balanced mix of numerical operations, geometry, financial understanding, and logical thinking.

Class 5 chapter-wise syllabus overview

Short pedagogic briefs and learning outcomes for each chapter

No.	Chapter Name	Brief overview	Learning outcome
1	**Number Systems**	Builds stronger place-value understanding, ordering, comparison, and structured number thinking.	Students read, compare, and work confidently with larger numbers and their relationships.
2	**Addition and Subtraction of Decimal Numbers**	Introduces decimal operations in practical quantity, money, and measurement situations.	Students add and subtract decimals accurately and apply them in everyday mathematical contexts.
3	**Multiplication and Division of Decimal Numbers**	Develops decimal fluency through stepwise calculation and application-based problem solving.	Students perform decimal multiplication and division with better accuracy and reasoning.
4	**Area and Perimeter of Geometrical Figures**	Connects shape measurement with space, boundary, and surface coverage using clear formulas.	Students calculate area and perimeter and apply geometry to real objects and diagrams.
5	**Profit and Loss**	Explains cost price, selling price, profit, and loss using age-appropriate commercial examples.	Students understand basic business mathematics and solve simple gain-and-loss problems.
6	**Introduction of Data handling**	Introduces reading, organising, and interpreting data through tables, graphs, and observations.	Students collect and read basic data, draw conclusions, and answer questions from charts.
7	**Simple Interest**	Builds early understanding of money growth over time through simple interest situations.	Students calculate simple interest in basic cases and relate it to savings and borrowing.
8	**Logical and Analytical Reasoning**	Strengthens structured thinking, pattern recognition, and stepwise reasoning across mathematics.	Students solve logic-based problems with more accuracy, attention, and confidence.

What students will learn across the syllabus

A school-friendly summary of the full learning journey

Number confidence

- work with larger numbers and decimal values more accurately
- strengthen place value, ordering, and comparison skills
- build smoother calculation habits

Applied operations

- add, subtract, multiply, and divide decimals with meaning
- connect operations with measurement and money situations
- improve multi-step problem solving

Geometry and measurement

- calculate area and perimeter using clear rules
- interpret shapes and dimensions with confidence
- apply measurement ideas to everyday objects

Commercial mathematics

- understand profit, loss, and simple interest in basic settings
- connect maths with buying, selling, saving, and lending
- develop practical number awareness

Data and interpretation

- read, organise, and understand simple data
- draw conclusions from tables and charts
- connect observation with reasoning

Logical reasoning

- solve structured, non-routine questions
- improve pattern recognition and analytical thinking
- develop stronger concentration and mathematical judgement

How educators and schools can use this syllabus

For schools

- use the syllabus as an academic enrichment and Olympiad-planning document
- map chapters with school revision schedules and math clubs
- position the subject as concept-led and future-oriented

For teachers

- plan chapter-wise reinforcement with examples and practice sets
- blend classroom teaching with application-based questions
- use outcomes to identify readiness and support areas

For parents and students

- understand why each chapter matters, not only what it is called
- track concept growth with a clearer learning purpose
- support practice using real-life maths conversations and examples

Important note: SCO International Olympiad provides free learning materials to support guided preparation, better concept understanding, and stronger student confidence.