School Connect Online

CLASS 5

SCO International Olympiad Class 5 Syllabus Overview

Subject-wise chapter pathways, learning outcomes, and learner-growth goals

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

What this document helps with

- gives schools and teachers a clear Class 5 pathway across multiple Olympiad subjects
- explains the syllabus in a polished, website-ready and editable official-format layout
- turns chapter resources into readable learning outcomes and student-growth goals

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Class 5 Syllabus Overview

Contents

This document is fully editable in Word and prepared for brochure, website, and school-circulation use.

How to read this syllabus overview

Designed for schools, teachers, families, and website users

This Class 5 syllabus overview converts the uploaded chapter resources into a polished, readable, and official-brand presentation. It follows the saved SCO syllabus pattern: branded cover, structured contents, chapter-wise subject tables, what students will learn, expected learning outcomes, foundational bridge, and the free-learning-materials note.

What this overview includes • subject-wise chapter lists across the available Class 5 Olympiad pathways • what students will learn in each subject • learning outcomes written in practical, school-friendly language	**Who can use it** • schools for website and brochure use • teachers for planning, sequencing, and communication • families for understanding preparation scope
How to use it well • read the subject overview first • use the chapter table for sequencing and planning • connect the outcomes with classroom practice and home revision	**Support note** • SCO International Olympiad provides free learning materials to support concept-building, revision, and guided preparation.

Foundational bridge for Class 5 learners

Why Class 5 is an important transition stage

From primary to more applied learning • Class 5 learners move into more structured multi-step thinking, interpretation, and explanation. • They are ready for deeper subject connections, not only recall-based answers.	**Best learning style** • At this age, students respond well to examples, guided discussion, practice sets, and concept-to-application movement. • Reasoning tasks should gradually increase in difficulty while keeping confidence intact.
Olympiad value • The purpose is not only competition; it is also concept strength, confidence, accuracy, reasoning, and learner identity. • Well-designed Olympiad preparation helps children become more independent thinkers.	**Teacher role** • Teachers are most effective when they turn chapters into mini-goals, examples, discussions, and confidence-building revision. • Pedagogy should blend concept clarity, retrieval, application, and reflection.

Mathematics Olympiad

Builds advanced primary confidence in decimals, geometry, data, arithmetic applications, financial maths, and logical problem solving.

What students will learn	Expected learning outcomes
• work confidently with decimals, operations, and number systems • apply area, perimeter, profit and loss, and simple interest to practical questions • interpret data and reason through multi-step maths situations	• stronger applied numeracy and mathematical confidence • better readiness for upper-primary Olympiad and school problem solving • improved accuracy in multi-step quantitative tasks

No.	Chapter name	Learning outcome / what this chapter builds
2	**Number Systems**	Strengthens number understanding and flexible calculation.
3	**Addition and Subtraction of Decimal Numbers**	Builds accuracy with decimal operations and place-value thinking.
4	**Multiplication and Division of Decimal Numbers**	Builds accuracy with decimal operations and place-value thinking.
5	**Area and Perimeter of Geometrical Figures**	Applies measurement ideas to geometry and real-life figures.
6	**Profit and Loss**	Connects arithmetic with money-based problem solving.
7	**Introduction of Data handling**	Reads and interprets data in tables or charts.
8	**Simple Interest**	Introduces simple financial calculation with clarity.
9	**Logical and Analytical Reasoning**	Improves non-routine problem solving and logical thinking.

English Olympiad

Strengthens grammar, expression, sentence structure, vocabulary growth, and applied language skills for classroom and Olympiad success.

What students will learn	Expected learning outcomes
• form stronger sentences using grammar and vocabulary tools • understand tenses, modals, prepositions, voice, and word-building patterns • read, write, and respond with more precision and confidence	• clearer grammar use and richer expression • improved comprehension and writing control • greater readiness for formal Olympiad-style language questions

No.	Chapter name	Learning outcome / what this chapter builds
1	**Kinds of Sentences**	Builds stronger structure and meaningful written expression.
2	**Sentence Formation**	Builds stronger structure and meaningful written expression.

3	**Introduction of Tenses**	Improves time-based grammar accuracy in language use.
4	**Suffix and Prefix**	Expands vocabulary through word formation.
5	**The Gerund**	Introduces advanced usage patterns in a child-friendly way.
6	**Prepositions**	Strengthens relationship words in context.
7	**Contractions**	Improves everyday written and spoken fluency.
8	**Modals**	Builds understanding of possibility, ability, and permission language.
9	**Adjectives (Degree of comparison)**	Sharpens comparison and descriptive language use.
10	**Active-Passive Voice**	Introduces sentence transformation and grammar awareness.
11	**Idioms and Phrases**	Extends figurative and natural language understanding.

Science Olympiad

Develops scientific understanding through health, food, resources, environment, energy, and space-related inquiry for middle-primary learners.

What students will learn	Expected learning outcomes
• connect health, food, resources, air, water, and energy concepts to daily life • understand scientific processes such as digestion, preservation, and environmental care • develop curiosity about Earth, space, and natural systems	• better observation, explanation, and concept linking • more confidence in applied science questions • stronger environmental and scientific awareness

No.	Chapter name	Learning outcome / what this chapter builds
1	**Human Body and Health**	Builds awareness of body systems, health, and care.
2	**Plants : Foods**	Connects plant knowledge with food and ecosystem understanding.
3	**Natural Resources and Calamities**	Develops environmental responsibility and hazard awareness.
4	**Food and Digestion**	Explains food processing and body function clearly.
5	**Food Preservation, Food Spoilage and Food Management**	Builds practical knowledge of food safety and management.
6	**Importance of Water**	Deepens understanding of water's uses and importance.
7	**Air and Fuels**	Connects natural resources with fuels and daily life.
8	**Our Solar System**	Builds basic astronomy and space-system awareness.

Mental Ability Olympiad

Sharpens structured thinking through verbal reasoning, sequences, coding, ranking, operations, puzzles, and non-routine analysis.

What students will learn	Expected learning outcomes
• solve sequence, coding, ranking, puzzle, and reasoning problems • read patterns more carefully and think through multi-step clues • improve visual, verbal, and numerical logic together	• faster logical processing and attention to detail • improved non-routine reasoning performance • stronger foundation for competitive aptitude tasks

No.	Chapter name	Learning outcome / what this chapter builds
1	**Series Completion**	Improves sequence recognition and pattern logic.
2	**Coding and Decoding**	Strengthens symbol-based reasoning and transformation.
3	**Alphabet Test**	Builds letter-order and verbal pattern awareness.
4	**Mathematical Operations**	Applies rule-based operations accurately.
5	**Puzzle Test**	Encourages structured multi-step reasoning.
6	**Calendar Test**	Uses date and calendar logic carefully.
7	**Number - Ranking - Time Sequence**	Develops order, comparison, and sequence reasoning.
8	**Arithmetical Reasoning**	Improves non-routine problem solving and logical thinking.
9	**Blood Relations**	Builds family-relation reasoning through verbal clues.
10	**Cubes and Dices Test**	Strengthens spatial imagination and 3D reasoning.
11	**Verbal Reasoning**	Improves non-routine problem solving and logical thinking.

Finance Knowledge Olympiad

Introduces practical money understanding through value, saving, budgeting, responsible use, comparison, and global currency awareness.

What students will learn	Expected learning outcomes
• understand currency value, saving, budgeting, and fair comparison • differentiate needs and wants in practical contexts • build responsible money habits and global financial awareness	• better money awareness and decision-making • more responsible value-based financial habits • early confidence in practical financial literacy

No.	Chapter name	Learning outcome / what this chapter builds
1	**Currency and Value**	Builds practical understanding of money value and use.
2	**Needs vs. Wants**	Helps students make more thoughtful consumption choices.
3	**Saving Habits**	Encourages saving discipline and goal-based thinking.
4	**Simple Budgeting**	Introduces planning and controlled spending habits.
5	**International Currency, Exchange and Fair Comparison**	Connects natural resources with fuels and daily life.
6	**Good Habits, Rules and Responsible Money Use**	Links financial literacy with ethics and rules.

Artificial Intelligence Olympiad

Explains AI, machine learning, data, patterns, and responsible technology use through child-friendly examples and project-oriented tasks.

What students will learn	Expected learning outcomes
• understand AI, machine learning, data, and pattern recognition at a child-friendly level • identify real-life AI examples and think about safe, responsible technology use • complete achiever tasks and simple AI-themed projects	• future-ready technology awareness with age-appropriate ethics • stronger pattern, data, and reasoning skills • confidence to connect technology with real-world learning

No.	Chapter name	Learning outcome / what this chapter builds
1	**Understanding AI**	Builds a clear and age-appropriate concept of AI.
2	**Machine Learning**	Introduces how examples and data help machines learn.
3	**Data Around Us**	Shows how data appears in everyday life.
4	**Pattern Recognition and Sequence Thinking**	Strengthens sequencing and pattern-based logic.
5	**Real-Life AI Example**	Connects AI concepts with familiar situations.

6	**Real-Life AI Example 2 Communication**	Connects AI concepts with familiar situations.
7	**Real-Life AI Example 3**	Connects AI concepts with familiar situations.
8	**Responsible AI for Children Safety**	Promotes child-safe and ethical technology behaviour.
9	**Achievers Section I Data Handling Tasks and Simple Machine Learning Games**	Reads and interprets data in tables or charts.
10	**Achievers Section 2 Grade 5 AI Projects**	Extends learning into challenge tasks and project application.
11	**Cross-Chapter AI Project Bank**	Encourages integrated project-based understanding.

Entrepreneurship Olympiad

Encourages enterprise thinking through ideas, planning, budgeting, market awareness, teamwork, fairness, and innovation.

What students will learn	Expected learning outcomes
• move from idea generation to planning, budgeting, and customer thinking • use teamwork, fairness, and digital tools in enterprise tasks • create simple case-based and plan-based responses	• higher initiative, creativity, and planning ability • better collaboration and responsible decision-making • practical understanding of value creation and enterprise thinking

No.	Chapter name	Learning outcome / what this chapter builds
1	**Understanding Entrepreneurship**	Introduces enterprise as problem-solving and value creation.
2	**Business Planning Basics**	Builds planning structure and feasibility thinking.
3	**Market Research & Customer Needs**	Helps students make more thoughtful consumption choices.
4	**Money Management & Budgeting**	Introduces planning and controlled spending habits.
5	**Digital Literacy & Innovation**	Links innovation with responsible digital use.
6	**Fairness, Safety, Rules, and Teamwork**	Connects natural resources with fuels and daily life.
7	**Case Study, Promotion, and Final Business Plan**	Brings ideas together into an applied final plan.

GK Olympiad

Expands global awareness through geography, history, environment, science, civics, and data interpretation in age-appropriate contexts.

What students will learn	Expected learning outcomes
• build better map, history, civics, science, and environment awareness • interpret facts, trends, and real-world information more confidently	• broader world awareness and current understanding • better recall plus interpretation of general information • improved discussion and answer-writing confidence

• connect general knowledge with reasoning and communication	

No.	Chapter name	Learning outcome / what this chapter builds
1	**World & Regional Geography**	Builds map-based awareness of regions, places, and environments.
2	**World History overview**	Develops timeline thinking and historical understanding.
3	**Environment & Sustainability**	Connects environment with conservation choices.
4	**Science & Inventions**	Links discoveries with scientific and social change.
5	**Civics & Rights**	Builds rights awareness and local governance understanding.
6	**Data & Reasoning**	Improves non-routine problem solving and logical thinking.

Coding Olympiad

Builds computational thinking through programming basics, applications, game development, digital tools, and guided technology use.

What students will learn	Expected learning outcomes
• understand programming basics and beginner digital applications • explore game-development ideas and technology scenarios • use core computer tools and online concepts more responsibly	• stronger computational thinking and digital fluency • better confidence with structured technology tasks • readiness for deeper coding pathways in later grades

No.	Chapter name	Learning outcome / what this chapter builds
1	**Intro to Programming**	Introduces coding concepts and structured instructions.
2	**Basic Coding Applications**	Connects coding with practical digital uses.
3	**Game Development Basics**	Builds creativity through interactive design thinking.
4	**Theory-Based Inquiries with Latest Scenario Explanations in Coding**	Uses theory and current-style questions for application.
5	**Suggested Teaching Plans**	Builds age-appropriate understanding, confidence, and applied learning in this topic.
6	**Introduction to MS-PowerPoint**	Builds presentation and digital communication skills.
7	**Internet**	Strengthens safe and effective internet understanding.
8	**Using Windows**	Builds foundational computer-operation confidence.

Life Skills Olympiad

Supports responsible growth through wellbeing, teamwork, digital literacy, sustainability, and real-life decision-making.

What students will learn	Expected learning outcomes
• develop stronger problem-solving and collaboration habits • use digital tools more responsibly and safely • connect health, sustainability, and personal responsibility with everyday action	• healthier habits and more responsible choices • better communication, resilience, and collaboration • improved readiness for school and real-life situations

No.	Chapter name	Learning outcome / what this chapter builds
1	**Problem-Solving Skills**	Develops reflective thinking in real situations.
2	**Teamwork and Collaboration**	Builds collaboration and respect through shared tasks.
3	**Digital Literacy**	Links innovation with responsible digital use.
4	**Health and Wellness**	Links wellbeing with active lifestyle and self-care.
5	**Sustainable Living**	Encourages practical eco-friendly habits and responsibility.

SCO free learning materials note
Closing note for website and school use

SCO International Olympiad provides free learning materials to support concept building, revision, guided practice, and mock-test readiness for students.

Helpful for students	Helpful for teachers	Helpful for schools
• chapter-wise preparation • guided revision • practice support	• alignment with class revision • extra worksheets and mock support • clearer performance follow-up	• stronger academic communication • structured enrichment pathway • website-ready positioning