

SCO INTERNATIONAL OLYMPIAD

GRADE 4 SYLLABUS

A comprehensive SYLLABUS for schools, teachers, parents, and students

Designed from Grade 4 syllabus pathways and aligned with SCO's platform flow for guided preparation, practice, reporting, and future-ready academic growth.

- age-fit syllabus for Grade 4 / primary-level learners globally
- subject-wise pathways across Maths, English, Science, Mental Ability, Finance, AI, Entrepreneurship, GK, Coding, and Life Skills
- preparation roadmap, implementation ideas, and future-benefit framing for academic enrichment

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

Contents

1. About SCO International Olympiad	2. Class 4 learner profile
3. Mathematics Olympiad	4. English Olympiad
5. Science Olympiad	6. Mental Ability Olympiad
7. Finance Knowledge Olympiad	8. Artificial Intelligence Olympiad
9. Entrepreneurship Olympiad	10. GK Olympiad
11. Coding Olympiad	12. Life Skills and free learning materials

This syllabus overview is prepared for brochure, website, and school-circulation use.

About SCO International Olympiad

SCO International Olympiad supports schools and families through age-appropriate academic pathways that combine concept clarity, practice readiness, and strong subject exposure. At Class 4 level, students move into more structured reasoning, explanation, comparison, and application across subjects.

For schools <ul style="list-style-type: none"> • use this syllabus as a website-ready overview • map chapters to classroom enrichment planning • present pathways in a structured, global format 	For teachers <ul style="list-style-type: none"> • identify chapter expectations quickly • connect each chapter with a short teaching focus • use the outcomes for planning and communication
For parents <ul style="list-style-type: none"> • see what students are expected to learn • understand concept progression clearly • support revision using concise outcomes 	Pedagogic design note <ul style="list-style-type: none"> • chapter outcomes are short and usable • language is practical for education settings • the structure supports concept-first learning

Class 4 learner profile

A clear bridge between concept knowledge and applied thinking

Academic profile <ul style="list-style-type: none"> • learners read instructions more independently • they begin handling multi-step tasks with support • they benefit from modelling and guided practice 	Best pedagogy <ul style="list-style-type: none"> • use worked examples and visual organisers • blend practice with oral explanation and reflection • connect concepts with real situations
Assessment-friendly growth <ul style="list-style-type: none"> • students should move beyond recall • they should compare, explain, classify, and apply • small challenges can build confidence 	Global learning orientation <ul style="list-style-type: none"> • focus on literacy, numeracy, reasoning, digital safety, sustainability, and communication • keep learning meaningful and future-ready

Mathematics Olympiad

Class 4 Mathematics strengthens number understanding, geometry, decimals, factors, and data representation through concept-first practice and practical application.

What students will learn

- use number ideas with more confidence
- apply perimeter, area, decimals, and data concepts
- connect arithmetic with reasoning and daily-life situations

Why this subject matters

- supports age-appropriate academic depth
- strengthens transferable skills for school and Olympiad learning
- encourages confident application, not only recall

No.	Chapter	Chapter-wise learning outcome
1	Number System	Builds place-value confidence and stronger number accuracy in everyday and Olympiad tasks.
2	Roman Numerals	Helps students decode and use alternate numeral systems with confidence.
3	Factors and multiples	Strengthens number relationships and structured arithmetic reasoning.
4	Geometrical Concepts	Builds spatial vocabulary and shape-based conceptual understanding.
5	Area and Perimeter of Geometrical Figures	Connects measurement with real-world geometry problems.
6	Graphical Representation of Data	Introduces chart reading and simple interpretation of information.
7	Addition and Subtraction of Decimal Numbers	Builds accuracy with decimal computation and place value.

English Olympiad

Class 4 English develops grammar accuracy, vocabulary growth, sentence formation, and confident expression through structured language use.

What students will learn

- strengthen grammar and sentence accuracy
- expand vocabulary and expression
- improve clear reading and writing responses

Why this subject matters

- supports age-appropriate academic depth
- strengthens transferable skills for school and Olympiad learning
- encourages confident application, not only recall

No.	Chapter	Chapter-wise learning outcome
1	Spell the Households	Develops spelling through familiar household vocabulary and context.
2	Conjunctions	Helps students connect ideas clearly within and across sentences.
3	Prepositions	Builds accurate language about place, time, and position.
4	Adjectives	Expands descriptive language and clearer written expression.
5	Synonyms and Antonyms	Strengthens vocabulary flexibility and meaning awareness.
6	Verb and Adverb	Improves action-based sentence structure and expression precision.
7	Idioms and Phrases	Develops richer comprehension and figurative language awareness.
8	Homophones and Homonyms	Builds careful listening, spelling, and meaning discrimination.
9	Contractions	Supports natural written and spoken language patterns.
10	Punctuations	Improves clarity, accuracy, and sentence meaning in writing.
11	Jumbled Words and Sentences	Strengthens grammar, sequencing, and sentence organisation.
12	My Parents	Encourages meaningful personal writing and clear expression.

Science Olympiad

Class 4 Science builds observation, explanation, and environmental awareness through life science, matter, energy, and Earth studies.

What students will learn

- observe and explain natural processes
- connect science topics with health and environment
- use evidence and examples in simple explanations

Why this subject matters

- supports age-appropriate academic depth
- strengthens transferable skills for school and Olympiad learning
- encourages confident application, not only recall

No.	Chapter	Chapter-wise learning outcome
1	Plants Life	Builds understanding of plant needs, growth, and functions.
2	Animals	Strengthens classification, habitat awareness, and biological observation.
3	Food and Digestion	Connects food choices with body processes and health.
4	Transport and Communications	Explains movement, connection, and change in society.
5	Human Needs	Builds awareness of survival needs and responsible living.
6	Matters and Materials	Introduces material properties and practical comparison.
7	Force, Work and Energy	Builds physical science awareness through motion and effort.
8	Our Environment	Encourages care for surroundings and sustainability thinking.
9	Earth and Universe	Builds curiosity about planets, Earth, and space systems.

Mental Ability Olympiad

Class 4 Mental Ability strengthens visual reasoning, sequencing, classification, direction sense, and non-routine logical thinking.

What students will learn

- recognise patterns and relationships quickly
- solve visual and verbal reasoning tasks
- improve accuracy in structured logical thinking

Why this subject matters

- supports age-appropriate academic depth
- strengthens transferable skills for school and Olympiad learning
- encourages confident application, not only recall

No.	Chapter	Chapter-wise learning outcome
1	Patterns	Strengthens recognition of sequences and logical order.
2	Alphabet Test	Builds language-linked reasoning and sequencing accuracy.
3	Coding-Decoding	Encourages symbolic thinking and logic-based interpretation.
4	Ranking Test	Builds order-based reasoning and careful comparison.
5	Mirror Images and Water Images	Develops visual-spatial interpretation and mental rotation.
6	Geometrical Shapes and Solids	Strengthens 2D/3D recognition and property understanding.
7	Embedded Figures	Builds visual attention and part-whole analysis.
8	Direction Sense Test	Improves orientation, route logic, and positional understanding.
9	Days and Dates & Possible Combinations	Supports calendar logic and structured reasoning.
10	Analogy and Classification	Builds comparison and category-based thinking.

Finance Knowledge Olympiad

Class 4 Finance Knowledge introduces saving, budgeting, simple interest, money systems, and responsible financial behaviour in real-life contexts.

What students will learn

- understand saving, depositing, and budgeting
- connect money use with responsibility and ethics
- apply financial ideas in simple scenarios

Why this subject matters

- supports age-appropriate academic depth
- strengthens transferable skills for school and Olympiad learning
- encourages confident application, not only recall

No.	Chapter	Chapter-wise learning outcome
1	Bank vs Piggy Bank	Introduces formal and informal saving systems clearly.
2	Deposits and Withdrawals	Builds transactional understanding using simple money actions.
3	Introduction to Interest	Introduces money growth in an age-appropriate way.
4	Budget Revision	Strengthens planning and controlled spending habits.
5	Real-Life Scenario Practice	Connects finance concepts to practical daily decisions.
6	Money Around the World	Builds global awareness of different money systems.
7	Safety, Ethics, and Responsible Behaviour	Connects financial literacy with honesty and safe choices.

Artificial Intelligence Olympiad

Class 4 Artificial Intelligence helps children understand AI, rules, pattern recognition, safe use, and guided project-based exploration.

What students will learn

- recognise AI and non-AI rules clearly
- explore data, patterns, and safe use
- engage with block coding and project thinking

Why this subject matters

- supports age-appropriate academic depth
- strengthens transferable skills for school and Olympiad learning
- encourages confident application, not only recall

No.	Chapter	Chapter-wise learning outcome
1	What is Artificial Intelligence	Builds a simple, correct idea of AI in child-friendly language.
2	Artificial Intelligence vs. Rules (Not Artificial Intelligence)	Helps students distinguish AI from fixed-rule systems.
3	Data & Pattern Recognition	Shows how data and patterns support intelligent systems.
4	Artificial-Intelligence-in-Games-&-Learning	Connects AI ideas to familiar digital experiences.
5	Learn Machines vs Humans in Artificial Intelligence	Builds comparison between machine processes and human thinking.
6	Safe and Responsible AI	Promotes safe, ethical, and age-appropriate technology use.
7	Matching Games & Block Coding	Builds logic, sequence, and simple coding structure.
8	AI based Project Bank	Encourages guided application and creative demonstration.

Entrepreneurship Olympiad

Class 4 Entrepreneurship builds planning, customer awareness, budgeting, resilience, teamwork, and innovation through age-appropriate enterprise learning.

What students will learn

- notice problems and useful ideas
- plan simple budgets and solutions
- develop teamwork, resilience, and leadership habits

Why this subject matters

- supports age-appropriate academic depth
- strengthens transferable skills for school and Olympiad learning
- encourages confident application, not only recall

No.	Chapter	Chapter-wise learning outcome
1	Understanding Entrepreneurship	Introduces enterprise as useful problem solving and value creation.
2	Business Planning Basics	Builds simple planning and goal-setting habits.
3	Market Research & Customer Needs	Helps learners notice needs before creating solutions.
4	Money Management & Budgeting	Develops resource planning and responsible spending choices.
5	Digital Literacy & Innovation	Links modern tools with creative and practical learning.
6	Fairness, Safety, and Simple Rules	Builds ethical conduct and safe participation habits.
7	Leadership, Resilience, and Teamwork	Strengthens collaboration, responsibility, and persistence.
8	From Local Ideas to the Wider World	Encourages global-minded thinking from local observations.

GK Olympiad

Class 4 GK broadens awareness across geography, history, science, economy, innovation, and environmental understanding.

What students will learn

- build awareness of world systems and society
- connect current issues with environment and innovation
- read maps, compare ideas, and explain basic facts

Why this subject matters

- supports age-appropriate academic depth
- strengthens transferable skills for school and Olympiad learning
- encourages confident application, not only recall

No.	Chapter	Chapter-wise learning outcome
1	World Geography	Builds map awareness and region-based global understanding.
2	Ancient & Modern History	Connects time periods and historical change clearly.
3	Science in Society	Shows how science knowledge supports community and daily life.
4	Economy basics	Introduces trade, needs, wants, and simple economic ideas.
5	Technology & Innovation (basic)	Builds awareness of change through inventions and communication tools.
6	Current Affairs & Environment	Encourages awareness of current issues and practical solutions.

Coding Olympiad

Class 4 Coding introduces computational thinking, logic, guided creation, and coding-linked problem solving through practical activities.

What students will learn

- understand coding logic and simple creation
- solve problems through sequence and reasoning
- connect digital tools with creative learning

Why this subject matters

- supports age-appropriate academic depth
- strengthens transferable skills for school and Olympiad learning
- encourages confident application, not only recall

No.	Chapter	Chapter-wise learning outcome
1	Fundamentals of Coding	Introduces essential coding ideas and sequence logic.
2	Logic and Reasoning used in Coding	Builds structured thinking used in computational tasks.
3	Simple Game Creation	Connects coding ideas with creative application and design.
4	Olympiad Practice Studio and Latest Scenarios in Coding for Kids	Supports applied practice and scenario-based understanding.

Life Skills

Life Skills for Class 4 support communication, emotional awareness, safety, gratitude, and environmental responsibility.

What students will learn

- build safe, respectful daily habits
- strengthen communication and self-awareness
- support wellbeing and responsible citizenship

Why this subject matters

- supports age-appropriate academic depth
- strengthens transferable skills for school and Olympiad learning
- encourages confident application, not only recall

No.	Chapter	Chapter-wise learning outcome
1	Basic Life Skills	Builds daily safety, hygiene, and time-management habits.
2	Communication Skills	Strengthens expression, listening, and interaction quality.
3	Emotional Awareness	Builds empathy, self-awareness, and respectful behaviour.
4	Responsibility & Gratitude	Supports positive habits, appreciation, and accountability.
5	Environmental Awareness	Encourages care for resources and sustainable habits.

SCO free learning materials note

Closing note for school and website use

SCO International Olympiad provides free learning materials to support concept building, chapter-wise revision, guided practice, and stronger preparation readiness for students.

Helpful for students

- chapter-wise preparation support
- guided revision and concept strengthening
- clear progression across subjects

Helpful for teachers

- extra structure for planning and communication
- usable chapter outcomes for classrooms
- support for academic enrichment positioning

Helpful for schools

- website-ready official-brand presentation
- stronger academic communication with parents
- a coherent enrichment pathway across Olympiads

Helpful for parents

- better understanding of expectations
- clear chapter-by-chapter visibility
- confidence in supporting home revision