



GLOBAL CHAMPS SERVICES

Your Victory, Our Mission

INTELLIGENCE & SCIENCE CONTEST 2026

Course Outlines

INDICATIVE SYLLABUS & PREPARATION AREAS BY CATEGORY

HOW TO USE THIS OUTLINE

These outlines show the topics and skills each contest draws upon, scaled to every age category. The Cluster Round follows a 30-question, 20-minute format (multiple-choice), and the online Parliamentary and Masterpiece Finale rounds build on the same areas with greater depth and challenge. The areas below are indicative and intended for teacher preparation.

GCS Intelligence Contest — Course Outline

The Intelligence Contest assesses logical reasoning, aptitude and general mental ability — pattern recognition, problem-solving and quick, accurate thinking. Content is scaled to each category as follows.

CATEGORY	FOCUS AREAS & SKILLS
Sprout Montessori – KG	Visual matching and odd-one-out; colours, shapes and sizes; big/small and more/less; simple picture patterns and sequences; positions (in, on, under); basic counting 1–10; picture analogies; observation and memory.
Explorer Grade 1 & 2	Number and shape patterns; classification and odd-one-out; simple analogies; mirror images and spatial sense; ordering and sequencing (days, sizes, numbers); basic logical relationships; picture-based problem solving; observation and memory.
Challenger Grade 3 & 4	Number and figure series; verbal and non-verbal analogies; classification; simple coding–decoding; direction sense; ranking and ordering; patterns and symmetry; basic pictograph/table reading; puzzles and riddles; logical deductions.
Contender Grade 5 & 6	Number and letter series; analogies and classification; coding–decoding; basic blood relations; direction and distance; arrangement and ranking; basic Venn diagrams; mirror/water images; figure series and embedded figures; data interpretation; problem solving.
Competitor Grade 7 & 8	Advanced series and analogies; coding–decoding; blood relations; directions; linear and seating arrangements; syllogisms; Venn diagrams; mathematical reasoning and number puzzles; clocks and calendars; data interpretation; critical thinking and inference; non-verbal reasoning (paper folding, figure matrices).
Achiever Grade 9 & 10	Complex series, analogies and classification; advanced coding–decoding; syllogisms and logical deductions; puzzles and seating arrangements; blood relations and directions; clocks and calendars; data sufficiency and interpretation; critical reasoning (statements, assumptions, conclusions); advanced non-verbal reasoning; aptitude (ratio, percentage, averages) in reasoning contexts.

GCS Science Contest — Course Outline

The Science Contest celebrates scientific thinking — core concepts, application and discovery across the sciences. Content is drawn from the national curriculum and scaled to each category as follows.

CATEGORY	FOCUS AREAS & SKILLS
Sprout Montessori – KG	Living and non-living things; parts of the body and the five senses; common animals — sounds, food and homes; plants around us; fruits and vegetables; weather and the sky (sun, moon, rain); day and night; water and its uses; keeping clean and healthy; safety at home.
Explorer Grade 1 & 2	Living and non-living things; parts of a plant; animals — types, food and homes; the human body and senses; healthy habits and food groups; air and water and their uses; weather and seasons; the Sun, Moon and stars; materials around us; safety and good habits.
Challenger Grade 3 & 4	Plants — parts, functions and life cycle; animals — groups, life cycles and habitats; the human body (teeth, bones, basic digestion); food and nutrition; matter — solids, liquids and gases; the water cycle; weather and seasons; light, sound and shadows; force (push and pull); Earth, Sun and Moon; caring for the environment.
Contender Grade 5 & 6	Cells and living organisms (introduction); plants — photosynthesis and reproduction; human body systems (digestive, respiratory, circulatory basics); classification of animals; states and changes of matter; physical vs chemical changes; force, motion and simple machines; energy — light, sound and heat; electricity and magnets (basics); the solar system; ecosystems and environment; the scientific method.
Competitor Grade 7 & 8	Cell structure and function; human body systems; nutrition in plants and animals; photosynthesis and respiration; atoms, elements, compounds and mixtures; acids, bases and salts (introduction); physical and chemical changes; force, pressure, motion and simple machines; heat, light and sound; electricity and magnetism; forms of energy; the solar system and space; natural resources, environment and pollution; measurement and the scientific method.
Achiever Grade 9 & 10	Cell biology and tissues; human physiology (nutrition, respiration, transport, coordination); reproduction and genetics (introduction); classification and biodiversity; atomic structure and the periodic table (introduction); chemical bonding and reactions; acids, bases and salts; physics — motion, forces and laws, work, energy and power; heat, light and sound (waves); electricity and magnetism; energy resources; Earth and space science; environmental science; scientific method, measurement and lab safety.

Question Format & Preparation Tips

- **Format:** Cluster Round — 30 multiple-choice questions in 20 minutes; a score of 85% or higher advances to the Parliamentary Round (online), and above 90% reaches the Masterpiece Finale.
- **Balance:** Questions are spread across the focus areas listed above, with difficulty increasing round by round.
- **Preparation:** Encourage regular practice with past-style questions, timed drills for speed and accuracy, and hands-on discussion of everyday science and reasoning puzzles.
- **Materials:** Students should bring blue or black pens and pencils; calculators and instruments are permitted only where specified for a category.

Indicative outline for teacher preparation — to be reviewed and finalised by the GCS academic team.