

INTERNATIONAL OLYMPIAD ACADEMY

SYLLABUS 2024-25



**MATH KANGAROO
COMPETITION**

France



**INTERNATIONAL
SCIENCE OLYMPIAD**

India



**HIPPO ENGLISH
OLYMPIAD**

Italy

PREPARATORY RESOURCES for INTERNATIONAL OLYMPIADS 2024-25

Maths



Science



English



- ✓ eReference Books
- ✓ eWorkbooks
- ✓ ePast Year Papers
- ✓ Online Mock Test
- ✓ Live Online Classes

Plan, Prepare, Practice and Perform



MATHEMATICAL KANGAROO COMPETITION

■ PRE-ECOLIER - 1 & 2 (GRADE- 1 & 2)

- Simple arithmetic operations with 1 digit and 2-digit numbers
- Distinguishing simple figures
- Time, clock, number of days in a week
- Number of months in a year

■ ECOLIER – 1 & 2 (GRADE- 3 & 4)

- Simple arithmetic operations with 1,2,3 and 4-digit numbers
- Recognizing geometric figures.
- A magic square with a sum of 15
- Time, clock, number of days in a week, number of months in a year
- Addition
- Subtraction
- Multiplication
- Division
- Intersection of sets
- Perimeter and area of a square, a rectangle

■ BENJAMIN- 1 & 2 (GRADE- 5 & 6)

- Addition, subtraction, multiplication, division.
- Magic squares
- Fractions and decimals.
- Clock, a calendar
- Perimeter of a polygon, area of a rectangle and a triangle
- Mathematical logic
- Lines and rays on a surface
- A cube, a rectangular solid.
- Acute, right, and obtuse angles.

■ CADET – 1 & 2 (GRADE – 7 & 8)

- Operations on rational numbers
- Powers of natural numbers
- Angles: acute, right, and obtuse
- Equations, inequalities and systems of linear equations
- Area of a rectangle, a triangle and a circle
- Lines and rays on a surface
- Volume and surface area of geometric figures
- Supplementary angles, sum of angles in a triangle and in a quadrilateral
- Mathematical logic

■ JUNIOR – 1 & 2 (GRADE - 9 & 10)

- Operations on real numbers
- Functions
- Polynomials
- Equations
- Inequalities.
- Sequences of numbers
- Elements of combinatorics
- Synthetic & analytic plane geometry

■ STUDENT – 1 & 2 (GRADE – 11 & 12)

- Simple arithmetic operations with 1,2,3 and 4-digit numbers
- Operations on real numbers
- Functions, polynomials, equations, inequalities.
- Sequences of numbers
- Elements of combinatorics
- Synthetic & analytic plane geometry





INTERNATIONAL SCIENCE OLYMPIAD

■ EINSTEIN (Grade -1 & 2):

- Living and non-living things.
- Plant kingdom.
- The world of animals.
- Human body.
- Food that we eat
- Our basic needs.
- Good habits.
- Safety rules and good manners.
- Our family and surroundings.
- Air, water, weather, and seasons.
- Rocks and minerals.
- Light and shadow.
- The sun, moon, earth, and our surroundings

■ NEWTON (Grade -3 & 4):

- Living & Non living
- Plant Kingdom
- Animal Kingdom
- Human Body
- Food, Food Chain
- All we need
- Matter and Material
- Measurement
- Force, Work and Energy
- Air, water and weather
- Solar System/The Universe

■ DARWIN (Grade -5 & 6):

- Living Non living
- Plant kingdom
- Animal Kingdom
- Human Body
- Cell
- Components of food
- Food Chain
- Atom and molecules
- Matter and Materials
- Energy
- Electricity and Magnets
- Motion and Force
- Light, Shadow and Reflection
- Fiber to Fabric
- Rock and Soil
- Environment
- The Universe

■ FARADAY (Grade -7 & 8):

- Motion
- Work and energy
- Heat
- Electric Current and Its Effects
- Light
- Sound Waves
- Magnetism
- The Universe
- Elements and Compound
- The Periodic Table of Elements
- States of Matter
- Acids, Bases and Salts
- Changes Around Us
- Weather, Climate and Adaptations of Animals to Climate
- Wind, Storms and Cyclones
- Natural Resources and Their Conservation
- The Cell: The Unit of Life

- Microorganisms – bacteria, fungi, and protists
- Nutrition in Plants and Animals
- Respiration in Organism
- Transportation in Plants and Animals
- Reproduction in Plants
- Food chain, food web, and transfer of energy in ecosystem
- History of life and earth formation

■ EDISON (Grade -9 & 10):

- Motion
- Force and Laws of Motion
- Gravitation
- Fluids and Floatation
- Work, Energy and Power
- Sound
- Optics
- Electricity
- Magnetic Effects of Electric Current
- Our Universe
- Matter in our Surroundings
- Is Matter Around us Pure?
- Atoms and Molecules
- Atomic Structure
- Chemical Reactions and Equation
- Acids, Bases and Salts
- Metals and Non-metals
- Carbon and Compounds
- Experimental Chemistry
- The Cell: The Unit of Life
- Tissues
- Improvement of Food Resources
- Diversity in Living Organisms
- Why do we fall ill
- Natural Resources
- Life Processes
- Control and Coordination
- How do Organisms Reproduce?
- Heredity
- Our Environment

■ FRANKLIN (Grade -11 & 12):

- Kinematics
- Laws of Motion
- Work, Energy and Power
- Rotational Motion
- Gravitation
- Properties of Matter
- Thermodynamics
- Waves and Oscillations
- Light & Optics
- Sound
- Astronomy
- Electrostatics
- Current Electricity
- Practical Physics
- Stoichiometry
- Atomic Structure
- Periodic Properties of Elements
- Chemical Bonding
- Redox Reactions
- Basic Principles and Techniques of Organic Chemistry
- Hydrocarbons
- Nuclear Chemistry
- Practical Chemistry
- Biochemistry
- Preventive Biology



HIPPO ENGLISH OLYMPIAD

- Questions will be drawn from school plus syllabus from different standard curriculum of national and international level.
- The official HIPPO website, <https://hippo-olympiad.org/sample-papers/>, contains sample questions, a detailed description of the three rounds' syllabus, and an online exam.

■ Examination Topics

Topic	A1	A2	B1	B2	C1	C2
Personal Details						
Family & Friends						
Hobbies & Leisure Activities						
Holidays						
Transport						
Weather						
Shopping						
Health & Exercise						
Education						
Work, Jobs & Careers						
Films, Media & Entertainment						
Books and Literature						
News, Lifestyles & Culture						
Environment						
Technology & Science						
Community and Society						
Law and Order						
Abstract topics						

LEGEND: ARE TOPICS COVERED IN THE RESPECTIVE GRADE / CATEGORY



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