

Class24 | Academic Talent Development Program

Junior Program Olympiad & Syllabus Roadmap

Structured preparation track for Class 8 to 10

Covers Physics · Chemistry · Biology · Mathematics

Prepared for school stakeholders | olympiad.class24.study | This document outlines the Olympiads covered and the subject-wise syllabus for the Junior Program batch.

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This roadmap is designed exclusively for students who want to explore academics exceptionally and build understanding well beyond their peer group and school textbooks. It maps directly to Class24's Junior Program batch (Class 8 to 10), combining NCERT-aligned concepts with Olympiad-level, non-routine problem exposure.

Section 1

Olympiads We Cover

Government-recognised and internationally accredited Olympiads mapped to Class 8 to 10 eligibility, sourced from Class24's Olympiad division (olympiad.class24.study).

Category	Olympiad / Exam	Conducting Body	Eligibility
Non-Routine Maths	National Mathematics Talent Contest (NMTTC)	Association of Maths Teachers of India (AMTI)	5th – 12th
Non-Routine Maths	Indian Olympiad Qualifier in Mathematics (IOQM)	Maths Teachers' Association India (MTAI)	8th – 12th
Non-Routine Maths	LIMIT (Online Mathematics Competition)	ISI Bangalore	6th – 12th
Non-Routine Maths	The Iranian Geometry Olympiad (IGO)	MTA(I)	7th – 12th
Aptitude in Maths	Aryabhata Ganit Challenge (AGC)	CBSE	8th – 10th
Aptitude in Maths	American Mathematics Competitions (AMC)	Mathematical Association of America (MAA)	5th – 12th
Aptitude in Maths	International Mathematics Olympiad (IMO)	Science Olympiad Foundation (SOF)	1st – 12th
Aptitude in Maths	SASMO / iOM	SASMO / Silverzone	1st – 12th
Aptitude in Science	National Standard Exam in Junior Science (NSEJS)	IAPT	8th – 10th
Aptitude in Science	National Science Olympiad (NSO) / IOS / NSTSE	SOF / Silverzone / Unified Council	1st – 12th
Aptitude in Science	International Chemistry Quiz (ICQ)	Royal Australian Chemical Institute	7th – 12th
Astronomy & Earth Science	IOAA – Juniors	National Council of Science Museums (NCSM)	8th – 10th
Astronomy & Earth Science	International Earth Science Olympiad (IESO)	Geological Society of India	8th – 12th
Science & Math	Vidyarthi Vigyan Manthan (VVM)	Vijnana Bharati (VIBHA), NCERT, NCSM	6th – 11th
Environment	TERI Green Olympiad	The Energy & Resources Institute (TERI)	4th – 12th
Informatics	Zonal Informatics / Computing Olympiad (ZIO / ZCO)	IARCS	Up to 12th
Research Outreach	INSPIRE Scheme	Dept. of Science & Technology, Govt. of India	6th – 10th

Note: Eligibility ranges shown are as prescribed by each conducting body. Class24 mentors help students identify and register for the Olympiads best suited to their class and interest area.

Section 2

Subject-wise Syllabus Coverage

Core chapters covered across Physics, Chemistry, Biology and Mathematics for the Junior Program batch, aligned with school curriculum and extended for Olympiad-level problem solving.

PHYSICS

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|--------------------------------|--|
| 1. Motion | 2. Electricity |
| 3. Optics: Reflection of Light | 4. Optics: Refraction of Light |
| 5. Force and Laws of Motion | 6. Gravitation |
| 7. Thrust and Pressure | 8. The Human Eye and the Colourful World |
| 9. Work and Energy | 10. Magnetic Effects of Electric Current |

CHEMISTRY

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|-------------------------------------|-----------------------------|
| 1. Chemical Reactions and Equations | 2. Acids, Bases and Salts |
| 3. Metals and Non-Metals | 4. Atoms and Molecules |
| 5. Structure of Atom | 6. Carbon and Its Compounds |
| 7. Periodic Classification | |

Section 2 (contd.)

Subject-wise Syllabus Coverage

MATHEMATICS

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|----------------------------------|----------------------------|
| 1. Introduction to Graphs & Data | 2. Lines and Angles |
| 3. Triangles and Its Properties | 4. Congruence of Triangles |
| 5. Polynomials | 6. Simple Equations |
| 7. Understanding Quadrilaterals | 8. Rational Numbers |

BIOLOGY

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|-------------------------------------|--|
| 1. Reproduction in Plants | 2. Living Organisms and Their Surroundings |
| 3. Nutrition in Plants | 4. Nutrition in Animals |
| 5. Weather, Climate and Adaptations | 6. Soil |
| 7. Microorganisms | 8. Conservation of Plants and Animals |

This syllabus map is used to design weekly modules, doubt-clearing sessions and Olympiad-specific practice sets for the Junior Program batch, ensuring every topic connects school learning to competition-level problem solving.