



# OLYMPIADS 2025

## SYLLABUS & PATTERN

### CLASS - VIII

#### PHYSICS

- Force & Pressure
- Current Electricity and Magnetism



#### CHEMISTRY

- Metals & Nonmetals
- Inside the Atom
- Composition of Matter



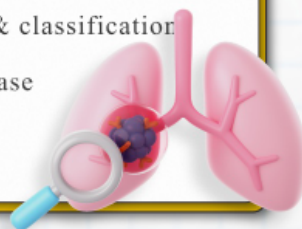
#### MATHEMATICS

- Rational & Irrational Numbers
- Parallel Lines & Transversals
- Indices & Cube Roots
- Altitudes & Medians of a triangle
- Statistics



#### BIOLOGY

- Living world & classification of Microbes
- Health & Disease
- Pollution



#### LOGICAL REASONING

1. Classification / Odd One Out  
[basic categorization]  
Objects,  
Words,  
Numbers

2. Analogies  
Picture and simple  
Word analogies



3. Patterns and Sequences (Basic)  
Number series (e.g., +2,  $\times 3$ ),  
Alphabet patterns

4. Direction Sense Test (Basic)  
Simple maps,  
Left-right turns,  
Distance problems



#### EXAM PATTERN

**TOTAL QUESTIONS = 60**



Physics

10

Questions

Chemistry

10

Questions

Biology

10

Questions

Mathematics

15

Questions

Logical Reasoning

15

Questions

● +4 marks for correct answer

● -1 mark for incorrect answer



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# OLYMPIADS 2025

## SYLLABUS & PATTERN

### CLASS - IX

#### PHYSICS

- Laws of Motion
- Work & Energy
- Current Electricity



#### CHEMISTRY

- Measurement of Matter
- Acids, Bases & Salts



#### MATHEMATICS

- Triangles
- Circle
- Co-ordinate Geometry
- Sets, Real Numbers & Polynomials
- Ratio & Proportions



#### BIOLOGY

- Classification of Plants
- Energy Flow in an Ecosystem
- Useful & Harmful Microbes



#### LOGICAL REASONING

##### 1. Blood Relations

Extended family puzzles, coded relations

##### 2. Coding-Decoding (Moderate)

- Symbol-based,
- Reverse logic,
- Letter shifting patterns



##### 3. Syllogisms (Intro)

Use of Venn diagrams, Basic conclusion testing.

##### 4. Patterns and Sequences (Intermediate)

Mixed logic series, Odd-one-out in sequences.



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Questions

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Questions

Biology

10

Questions

Mathematics

15

Questions

Logical Reasoning

15

Questions

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## SYLLABUS & PATTERN

### CLASS - X

#### PHYSICS

- Gravitation
- Effects of Electric current
- Heat

#### MATHEMATICS

- Linear Equations in 2 variables
- Quadratic equation
- Arithmetic Progression
- Similarity
- Co-ordinate Geometry

#### CHEMISTRY

- Periodic Classification of Elements
- Chemical reactions & equations

#### BIOLOGY

- Heredity & Evolution
- Life processes in living organisms 1 & 2
- Environmental management

#### LOGICAL REASONING

##### 1. Logical Puzzles

- Seating arrangements,
- Order-ranking,
- Floor puzzles

##### 2. Syllogisms (Advanced)

- Compound statements,
- Logical consistency
- Testing.

##### 3. Advanced Coding-Decoding

- Symbolic and language-based codes,
- Rule-based transformations,
- Pattern decoding

##### 4. Mathematical Reasoning

- Word-based logic problems
- Involving arithmetic, ratios, or simple equations

TOTAL  
DURATION:  
90 MINS

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Chemistry

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Questions

Biology

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Questions

Mathematics

15

Questions

Logical Reasoning

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Questions

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