



JUNIOR PHYSICS OLYMPIAD (JPO)

Syllabus – 2026 - 2027

Class : VI

UNIT 1: Scientific Measurement

- Physical quantities
- SI units
- Unit conversions
- Measuring length, mass, time and temperature
- Estimation techniques
- Significant observations
- Measurement errors
- Scientific notation

UNIT 2: Motion Around Us

- Rest and motion
- Types of motion
 - o Rectilinear
 - o Circular
 - o Periodic
 - o Oscillatory
- Relative position
- Distance travelled
- Motion puzzles

UNIT 3: Force in Daily Life

- Push and pull
- Effects of force
- Contact and non-contact forces
- Everyday applications

UNIT 4: Light

- Sources of light
- Shadows
- Transparent, translucent, opaque objects
- Reflection from plane mirrors
- Multiple reflections
- Mirror puzzles
- Symmetry

UNIT 5: Electricity

- Electric cells
- Circuits
- Conductors and insulators
- Open and closed circuits
- Current path reasoning

UNIT 6: Magnetism

- Magnets
- Magnetic poles
- Compass
- Magnetic materials
- Magnetic puzzles

UNIT 7: Scientific Reasoning

- Observation skills
- Pattern recognition
- Data interpretation
- Logical reasoning