



# IOSA OLYMPIAD

## SYLLABUS (GRADE 7TH)

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### **Astronomy**

- The Planetary Configurations
- The orbit of the Earth
- The orbit of the Moon
- Eclipses
- Details of different Planets
- Origin of the solar system

### **Science**

- Physical Changes
- Chemical Changes
- Acid, Base & Salt
- Motion & Time
- Light

### **Maths**

- Integers
- Simple Equations
- Rational Numbers
- Perimeter
- Area
- Exponents & Power



# IOSA OLYMPIAD

## SYLLABUS (GRADE 8TH)

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### **Astronomy**

- Introduction to Astrobiology
- The Planetary Configurations
- Life in Solar system
- Eclipses
- Details of different Planets
- Origin of the solar system

### **Science**

- Force & Pressure
- Friction
- Sound
- Light
- Stars & the Solar system

### **Maths**

- Linear Equations in 1 Variable
- Cubes & Cube roots
- Square & Square roots
- Mensuration
- Factorization



# IOSA OLYMPIAD

## SYLLABUS (GRADE 9TH)

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### **Astronomy**

- Introduction to Astrobiology
- The Planetary Configurations
- Life in the Solar system
- Eclipses
- Details of different Planets
- Origin of the solar system
- White Dwarf, Neutron Stars & Black Hole

### **Science**

- Atoms & Molecules
- Motions
- Gravitation
- Structure of Atom
- Force & Laws of motion

### **Maths**

- Linear Equations in 2 Variable
- Area of different shapes
- Circle
- Probability
- Quadrilaterals



# IOSA OLYMPIAD

## SYLLABUS (GRADE 10TH)

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### **Astronomy**

- Introduction to Astrobiology
- The Planetary Configurations
- Life in the Solar system
- Eclipses
- Details of different Planets
- Origin of the solar system
- White Dwarf, Neutron Stars & Black Hole

### **Science**

- Acid, Bases & Salts
- Periodic classification
- Metals & Non metals
- Electricity
- Reflection
- Refraction

### **Maths**

- Linear equation in 2 variable
- Arithmetic Progression
- Quadratic equation
- Coordinate Geometry
- Surface Area & Volume
- Probability



# IOSA OLYMPIAD

## SYLLABUS (GRADE 11TH)

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### **Astronomy**

- Introduction to Galaxies
- Structure of Galaxies
- Origin & Evolution of Galaxies
- Milky Way
- Structural formation & evolution of Milky way
- The Sun

### **Science**

- Equilibrium
- Structure of Atom
- Periodicity
- Gravitation
- Motion in a plane

### **Maths**

- Probability
- Permutations
- combinations
- Trigonometric Functions
- Sets



# IOSA OLYMPIAD

## SYLLABUS (GRADE 12TH)

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### **Astronomy**

- Introduction to Galaxies
- Structure of Galaxies
- Origin & Evolution of Galaxies
- Milky Way
- Structural formation & evolution of Milky way
- The Sun

### **Science**

- Electric Charge & Field
- Magnetism
- Solid State
- Solutions
- P, d and F block elements

### **Maths**

- Probability
- Differential Equations
- Application of derivatives
- Application of Integrals