

# International Maths Olympiad (IMO)

## Maths Olympiad IMO Syllabus Class 1

### **SECTION 1 - SUBJECTIVE**

Chapter 1: Shapes and Sizes

Chapter 2: Number System

Chapter 3: Addition

Chapter 4: Subtraction

Chapter 5: Time

Chapter 6: Money

Chapter 7: Measurement

Chapter 8: Patterns

Chapter 9: Logical Reasoning

### **SECTION 2 - LOGICAL REASONING**

Patterns, Measuring Units (Verbal), Geometrical Shapes, Odd One Out, Spatial Understanding, Grouping, Analogy, Ranking, Symmetry, Paper Folding, Paper Cutting, Situation Reaction, Mirror Image, Water Image.

### **SECTION 3 - HOT's (HIGH ORDER THINKING SECTION)**

High Order Thinking Section contains questions related to Section 1 - Subjective.



# Maths Olympiad IMO Syllabus Class 2

## **SECTION 1 - SUBJECTIVE**

Chapter 1: Lines and Shapes

Chapter 2: Number system

Chapter 3: Addition

Chapter 4: Subtraction

Chapter 5: Time

Chapter 6: Money

Chapter 7: Measurement

Chapter 8: Patterns

Chapter 9: Logical Reasoning

## **SECTION 2 - LOGICAL REASONING**

Patterns, Measuring Units, Geometrical Shapes, Odd One Out, Analogy, Ranking Test, Grouping Figures, Coding-Decoding, Symmetry, Paper Folding, Paper Cutting, Situation Reaction, Mirror Image, Water Image.

## **SECTION 3 - HOT's (HIGH ORDER THINKING SECTION)**

High Order Thinking Section contains questions related to Section 1 - Subjective.



# Maths Olympiad IMO Syllabus Class 3

## **SECTION 1 - SUBJECTIVE**

Chapter 1: Basic Geometric Shapes  
Chapter 2: Number System  
Chapter 3: Addition & Subtraction  
Chapter 4: Multiplication & Division  
Chapter 5: Fractions  
Chapter 6: Measurement  
Chapter 7: Time & Calendar  
Chapter 8: Data Handling  
Chapter 9: Logical Reasoning

## **SECTION 2 - LOGICAL REASONING**

Alphabet Test, Coding-Decoding, Ranking Test, Mirror Images, Geometrical Shapes and Solids, Embedded Figures, Direction Sense Test, Days and Dates and Possible Combinations, Analogy and Classification, Water Images, Blood Relations, Number Series, Grouping of Figures and Matrix, Logical Sequence of Words and Letters.

## **SECTION 3 - HOT's (HIGH ORDER THINKING SECTION)**

High Order Thinking Section contains questions related to Section 1 - Subjective.



# Maths Olympiad IMO Syllabus Class 4

## **SECTION 1 - SUBJECTIVE**

Chapter 1: Basic Geometric Shapes  
Chapter 2: Number System  
Chapter 3: Addition & Subtraction  
Chapter 4: Multiplication & Division  
Chapter 5: Fractions  
Chapter 6: Measurement  
Chapter 7: Time & Calendar  
Chapter 8: Data Handling  
Chapter 9: Logical Reasoning

## **SECTION 2 - LOGICAL REASONING**

Alphabet Test, Coding-Decoding, Ranking Test, Mirror Images, Geometrical Shapes and Solids, Embedded Figures, Direction Sense Test, Days and Dates and Possible Combinations, Analogy and Classification, Water Images, Blood Relations, Number Series, Grouping of Figures and Matrix, Logical Sequence of Words and Letters.

## **SECTION 3 - HOT's (HIGH ORDER THINKING SECTION)**

High Order Thinking Section contains questions related to Section 1 - Subjective.



# Maths Olympiad IMO Syllabus Class 5

## **SECTION 1 - SUBJECTIVE**

Chapter 1: Concept of Geometry

Chapter 2: Number System

Chapter 3: Factors & Multiples

Chapter 4: Addition & Subtraction

Chapter 5: Multiplication & Division

Chapter 6: Fractions & Decimals

Chapter 7: Measurement

Chapter 8: Data Handling

Chapter 9: Logical Reasoning

## **SECTION 2 - LOGICAL REASONING**

Analogy and Classification, Mirror and Water Image, Direction Sense Test, Ranking Test, Puzzle Test (Verbal), Coding-Decoding, Venn Diagram, Series, Blood Relations, Figure Matrix, Mathematical Operations, Alphabet Test, Cubes and Dice.

## **SECTION 3 - HOT's (HIGH ORDER THINKING SECTION)**

High Order Thinking Section contains questions related to Section 1 - Subjective.



# Maths Olympiad IMO Syllabus Class 6

## **SECTION 1 - SUBJECTIVE**

Chapter 1: Concept of Geometry

Chapter 2: Number System

Chapter 3: Factors & Multiples

Chapter 4: Integers

Chapter 5: Decimal Fractions

Chapter 6: Ratio & Proportion

Chapter 7: Arithmetic

Chapter 8: Basic Algebra

Chapter 9: Data Handling

Chapter 10: Mensuration

Chapter 11: Symmetry

Chapter 12: Logical Reasoning

## **SECTION 2 - LOGICAL REASONING**

Series Completion and Inserting the Missing Character, Alpha-Numeric Sequence, Analogy and Classification, Coding-Decoding, Blood Relations, Direction Sense Test, Logical Venn Diagram, Puzzle, Mathematical Operations, Analytical Reasoning, Mirror and Water Images, Embedded Figures and Figure Formation, Figure Matrix, Ranking, Cubes and Dice..

## **SECTION 3 - HOT's (HIGH ORDER THINKING SECTION)**

High Order Thinking Section contains questions related to Section 1 - Subjective.



# Maths Olympiad IMO Syllabus Class 7

## **SECTION 1 - SUBJECTIVE**

Chapter 1: Number System  
Chapter 2: Fractions & Decimals  
Chapter 3: Linear Equation in One Variable  
Chapter 4: Algebraic Expression  
Chapter 5: Comparing Quantities  
Chapter 6: Exponents and Power  
Chapter 7: Ratio & Proportion  
Chapter 8: Practical Geometry & Lines and Angles  
Chapter 9: The Triangle & Its Properties  
Chapter 10: Mensuration  
Chapter 11: Data Handling  
Chapter 12: Logical Reasoning

## **SECTION 2 - LOGICAL REASONING**

Series Completion and Inserting the Missing Character, Alpha-Numeric Sequence, Analogy and Classification, Coding-Decoding, Blood Relations, Direction Sense Test, Logical Venn Diagram, Puzzle, Mathematical Operations, Analytical Reasoning, Mirror and Water Images, Embedded Figures and Figure Formation, Figure Matrix, Ranking, Construction of Squares.

## **SECTION 3 - HOT's (HIGH ORDER THINKING SECTION)**

High Order Thinking Section contains questions related to Section 1 - Subjective.



# Maths Olympiad IMO Syllabus Class 8

## **SECTION 1 - SUBJECTIVE**

Chapter 1: Rational Number

Chapter 2: Exponents and Powers

Chapter 3: Square and Square Roots

Chapter 4: Cube and Cube Roots

Chapter 5: Math Magic

Chapter 6: Factorization

Chapter 7: Comparing Quantities

Chapter 8: Direct and Indirect Proportion

Chapter 9: Operation On Algebraic Expressions

Chapter 10: Understanding Quadrilateral and Practical Geometry

Chapter 11: Mensuration

Chapter 12: Data Handling

Chapter 13: Logical Reasoning

## **SECTION 2 - LOGICAL REASONING**

Series Completion and Inserting the Missing Character, Alpha-Numeric Sequence, Analogy and Classification, Coding-Decoding, Blood Relations, Direction Sense Test, Logical Venn Diagram, Puzzle, Mathematical Operations, Analytical Reasoning, Mirror and Water Images, Embedded Figures and Figure Formation, Figure Matrix, Ranking, Construction of Squares.

## **SECTION 3 - HOT's (HIGH ORDER THINKING SECTION)**

High Order Thinking Section contains questions related to Section 1 - Subjective.





# Maths Olympiad IMO Syllabus Class 9

## **SECTION 1 - SUBJECTIVE**

Chapter 1: Number System  
Chapter 2: Algebraic Expression  
Chapter 3: Linear Equation in Two Variables  
Chapter 4: Comparing Quantities  
Chapter 5: Probability & Permutation Combination  
Chapter 6: Lines and Angles  
Chapter 7: Triangle  
Chapter 8: Circle  
Chapter 9: Quadrilateral and its Area  
Chapter 10: Mensuration  
Chapter 11: Trigonometry  
Chapter 12: Data Handling  
Chapter 13: Logical Reasoning

## **SECTION 2 - LOGICAL REASONING**

Series Completion, Alpha Numeric, Analogy, Classification, Coding-Decoding, Blood Relations, Puzzle Test, Sequential Output Tracing, Direction Sense Test, Logical Venn Diagrams, Alphabet Test, Ranking, Mathematical Operations, Inserting the Missing Character.

## **SECTION 3 - HOT's (HIGH ORDER THINKING SECTION)**

High Order Thinking Section contains questions related to Section 1 - Subjective.



# Maths Olympiad IMO Syllabus Class 10

## **SECTION 1 - SUBJECTIVE**

Chapter 1: Real Number  
Chapter 2: Arithmetic Progression  
Chapter 3: Polynomials  
Chapter 4: Quadratic Equations  
Chapter 5: Probability & Permutation Combination  
Chapter 6: Co-Ordinate Geometry  
Chapter 7: Triangles  
Chapter 8: Circle and Its Area  
Chapter 9: Quadrilateral and Its Area  
Chapter 10: Mensuration  
Chapter 11: Trigonometry  
Chapter 12: Data Handling  
Chapter 13: Logical Reasoning

## **SECTION 2 - LOGICAL REASONING**

Series Completion, Alpha Numeric, Analogy, Classification, Coding-Decoding, Blood Relations, Puzzle Test, Sequential Output Tracing, Direction Sense Test, Logical Venn Diagrams, Alphabet Test, Ranking, Mathematical Operations, Inserting the Missing Character.

## **SECTION 3 - HOT's (HIGH ORDER THINKING SECTION)**

High Order Thinking Section contains questions related to Section 1 - Subjective.

