

Math Olympiad Syllabus Class 6

1. Knowing the numbers

- International System of Numeration
- Roman Numbers
- Addition and Subtraction of Large Numbers
- Multiplication and Division of Large Numbers
- Number Operations
- · Estimations and Rounding
- · Brackets and Multiplication

2. Whole numbers

- Introduction to Whole numbers
- Properties of operations on whole numbers
- Patterns in whole numbers
- Greater than and less than
- Whole Number Predecessor and Successor
- Arithmetic operation based on the number line.
- Representation of Roman Numerals to Whole number
- Evaluate using Arithmetic Properties
- Arithmetic Properties of multiplication and addition for whole numbers.

3. Playing with numbers

- Factors and Multiples of a Number
- Prime and Composite Numbers
- Divisibility Test: 2,3,4,5,6,8,9,10,11
- LCM and HCF of Numbers
- Special Cases of LCM and HCF
- Application of LCM and HCF in the Real World

4. Integers

- · Comparing and ordering integers
- Adding Integers
- Subtracting Integers



- Multiply and Divide integers
- · Addition and Subtraction of integer on number line
- Evaluate numerical expressions involving integers
- Compare temperature above and below zero degree celsius

5. Fractions

- Types of fractions
- Equivalent Fractions
- Comparing fractions
- Multiply and divide fractions and mixed numbers
- Sum and differences of mixed numbers
- · Arrange fractions in ascending and descending order
- Compare Fractions using models
- Convert Fractions and mixed numbers to decimals
- Word problems

6. Decimals

- · Comparison of decimals
- Converting units using decimals
- Adding Decimals
- Subtracting Decimals

7. Data Handling

- · Collecting and organizing data
- Interpret line graph
- Interpret bar graph
- Interpret frequency table
- Study the categorized data and solve the questions
- Interpret Pictograph

8. Mensuration

- Perimeter of a square and rectangle
- Area of a rectangle and a square
- Application: Area of square and rectangles
- Application: Area and perimeter of square and rectangles

9. Algebra



- Introduction to Algebra
- Algebraic Expressions
- Writing algebraic expressions
- Introduction of equations
- Evaluate linear equation
- Identify the equations for the given statements
- Find the value of the variables

10. Ratio and proportion

- Concept of ratio and difference between fraction and ratio
- Equivalent Ratios
- Unit Rates
- Solve the given proportions and ratios
- Find the ratios of shaded and unshaded figures