

## OLYMPIAD INTERNATIONAL MATH SYLLABUS CLASS 5

### Knowing numbers

- Numbers and their names ( up to 6 digits )
- Expanded form
- Comparing number ( up to 5 digits )
- Even and odd numbers : arithmetic rule
- Inequalities on number line
- Forming number (with and without repetition) from given information
- Roman numbers (up to 1000)
- Convert between place values
- Estimation in nearest ten, hundreds , thousands
- Word problems

### Miscellaneous operations

- Sum and difference of six digit numbers
- Sum and difference of roman numbers
- Multiplication of three and four digits number with 3,4- digit numbers
- Division of five digit numbers with 2,3-digit numbers
- Estimate multiplication and division by rounding off
- Estimate sum and difference by rounding off
- Finding HCF and LCM
- Properties of sum, difference, product and quotients
- Unitary method to solve word problems

- Word problems

### **Measurements**

- Conversion of units from one unit to another
- Word problems on measuring units ( temperature, time, length, weight, mass and capacity )

### **Decimals and Fractions**

- Fractional or decimal form of shaded and unshaded parts
- Operations on fractions
- Express fraction in decimal form and decimals numbers in fractional form
- Represent fractions in whole numbers
- Round off decimal numbers to the nearest ten, hundreds, thousands, tenths, hundredths and thousandths
- Word problems on fractions and decimals

### **Measuring Perimeter and area**

- Find perimeter of rectangle and square
- Find area of rectangle and square
- Find the missing sides or lengths of the given figure
- Find area and perimeter of figures shown in grids
- Using area and perimeter for calculating daily expenses
- Area and Perimeter: Word Problems

### **Measuring angles**

- Parallel, perpendicular and intersecting lines concepts
- Types of angles
- Measuring angles

- Angles of quadrilaterals
- Measuring angles using protector
- Word problems

### **Data Handling**

- Interpret bar graphs, line graphs, pictographs, frequency charts ·  
Interpret bar graphs, frequency chart – Multi Step problem

- Find the answers of the questions using information given in pictographs, picture graphs

- Find the answers of the questions using line graphs and bar

### graphs Symmetry

- Identify symmetry in given figures
- Rotational symmetry : amount of Rotations
- Add number of squares to make the figure symmetrical

### **Logical reasoning**

- Number and figure patterns
- Coding and decoding
- Blood Relations
- Alphabet test
- Direction sense test
- Ranking test: find the position of a term or a object from the given position
- Mirror images or Water images
- Simple sitting arrangements
- Embedded figures