Math Olympiad Syllabus Class 4

Knowing numbers
- Numbers and their names (upto 5 digits)
- Expanded form
- Comparing number (upto 4 digits)
- Even and odd numbers : arithmetic rule
- Inequalities on number line
- Forming number (with and without repetition) from given information
- Roman numbers (upto 500)
- Convert between place values
- Estimation in nearest ten's, hundred's , thousand's
- Word problems

Miscellaneous operations
- Sum and difference of five and six digit numbers
- Sum and difference of roman numbers
- Multiplication of three and four digits number with 1,2,3- digit numbers
- Comparing numbers with the help of multiplication
- Division of five digit numbers with 1,2-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

Fraction
- Fractions of shaded and unshaded part
- Simplify fractions in its simplest form
- Equal and unequal fraction fractions
- Comparing fractions

- Arranging fractions in ascending and descending order
- Convert mixed fraction into improper fraction and vise versa
- Arithmetic operations with fractions having same denominator or different denominator
- Word problems

Money and Time
- Calendar reading
- Conversion of units of time and money
- Relation between years, months week, days, hours, minutes and seconds
- Measuring time spend in two activities
- Unit prices of objects and materials

Measurements (length, weight, capacity, mass, volume)
- Conversion of units of length, weight and capacity
- Compare and convert metric units of mass and volume
- Comparing weights / lengths
- Measuring weights/ lengths using weighing scale / ruler
- Metric mixed units
- Word problems

Geometry
- Counting of geometrical shapes, solids and type of lines in geometrical figures
- Identification of types of polygons
- Net of 3 dimensional figures
- Concepts of closed and open figure/ curve
- Parallel, intersecting and coinciding lines concepts
- Properties of rectangle, square, equilateral triangle, isosceles triangle and circle

Data Handling
- Solve the questions using in pictograph or picture graph
- Solve the questions using given bar graphs
- Choose the best type of graph