

**Std. 6 Online Mathematics Training Programme**  
**by**  
**Bhaskaracharya Pratishthana, Pune**

**Date of Commencement of the course:** 21<sup>th</sup> June 2021

**Eligibility for the course:** More than 85% marks or equivalent grade in Mathematics in Std. 5

**Expected learning outcomes from the course:**

1. Substantiate the liking for mathematics
2. Achieve more conceptual clarity
3. Enhance problem solving skills

**Timings for the course:** Monday 4.00 pm to 6.00 pm

**Fees for the programme:** Rs. 5000/-

**Syllabus for 6<sup>th</sup> Standard:**

1. Number system and properties (Integers, Introduction to Rational Numbers, Order Relation, Operations)
2. Fractions (Vulgar/ Decimal/ Recurring Fractions, Operations, Conversions)
3. Powers and Roots (Basic Laws of Indices, Square Roots in detail)
4. Average
5. LCM & HCF
6. Introduction to Algebra (Terms, Variables, Addition / Subtraction / Multiplication / Division of simple polynomials)
7. Arithmetic Equations (Order, Degree, Equations in One Variable, Linear Equations)
8. Direct and Inverse Variation (Time - Distance – Speed, Time Work Relation)
9. Ratio and Proportion
10. Percentage and its Applications (Simple Interest, Profit and Loss)
11. Geometry (Angles, Parallel Lines, Triangles, Circle, Symmetry)
12. Mensuration

**Activities:**

- Puzzles (Logic, Numbers, Shapes) given in every session
- Special lectures on interesting topics
- Worksheets for practice
- Group activities

**Books for Reference:**

1. Pearson IIT Foundation book for Mathematics - Std. 6
2. IPM Textbook for Std. 6
3. Various Mathematical and Logical Puzzle Books
4. A School Geometry by Stevens - Hall

**Teaching Faculty and Coordinator of the programme:**

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