

MOONPRENEUR.COM



Grades 3rd, 4th, 5th & 6th



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| MENTAL MATH/VEDIC MATH |

MOONPRENEUR'S TEACHING METHODOLOGY



Moonpreneur follows its same tried and tested methodology it uses for its Innovator Program. We follow a four step process when the students observe/listen/watch the teacher in the first step. In the second step, students perform what was done by teachers in step one. In the third step, teachers explain to the students in detail. In the final step, students play/tinker with problems to get a feel and experience the subject.

We ensure that talented students are given advanced treatment with challenging homework and evaluation. If a student is advancing well, we may allow him/her to move to the next grade level.

COMMON CORE STANDARD

For more than a decade, research studies of mathematics education in high-performing countries have concluded that mathematics education in the United States must become substantially more focused and coherent in order to improve mathematics achievement in this country. To deliver on this promise, the mathematics standards are designed to address the problem of a curriculum that is "a mile wide and an inch deep."

These Math Standards are built on the best of high-quality math standards from States across the country. They also draw on the most important international models for mathematical practice, as well as research and input from numerous sources, including state departments of education, scholars, assessment developers, professional organizations, educators, parents and students, and members of the public.



Classes:

| Course | Number of Classes per month | Class Duration |
|------------------------|--------------------------------|-------------------|
| Math: Common Core | 4 to 5 | 1.5 Hrs/Week |
| Vedic Math/Mental Math | 1 | 1.5 Hrs/Month |

The total duration of the course is **9 months**.

COMMON CORE STANDARD-GRADE 3 CURRICULUM

1. Operations and Algebraic Thinking

- Represent and solve problems involving multiplication and division.
- Understand properties of multiplication and the relationship between multiplication and division.
- Multiply and divide within 100.
- Solve problems involving the four operations, and identify and explain patterns in arithmetic.

2. Number and Operations in Base Ten

• Use place value understanding and properties of operations to perform multi-digit arithmetic.

3. Number and Operations-Fractions

• Develop understanding of fractions as numbers.

4. Measurement and Data

- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- Represent and interpret data.
- Geometric measurement: understand concepts of area and relate area to multiplication and to addition.
- Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

5. Geometry

• Reason with shapes and their attributes.

COMMON CORE STANDARD-GRADE 4 CURRICULUM

1. Operations and Algebraic Thinking

- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze patterns.

2. Number and Operations in Base Ten

- Generalize place value understanding for multi-digit whole numbers.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

3. Number and Operations-Fractions

- Extend understanding of fraction equivalence and ordering.
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions.

4. Measurement and Data

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- Represent and interpret data.
- Geometric measurement: understand concepts of angle and measure angles.

5. Geometry

• Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

COMMON CORE STANDARD-GRADE 5 CURRICULUM

1. Operations and Algebraic Thinking

- Write and interpret numerical expressions.
- Analyze patterns and relationships.

2. Number and Operations in Base Ten

- Understand the place value system.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.

3. Number and Operations–Fractions

- Use equivalent fractions as a strategy to add and subtract fractions.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

4. Measurement and Data

- · Convert like measurement units within a given measurement system.
- Represent and interpret data.
- Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.

5. Geometry

- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Classify two-dimensional figures into categories based on their properties.

COMMON CORE STANDARD-GRADE 6 CURRICULUM

1. Ratios and Proportional Relationships

• Understand ratio concepts and use ratio reasoning to solve problems.

2. The Number System

- Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
- Multiply and divide multi-digit numbers and find common factors and multiples.
- Apply and extend previous understandings of numbers to the system of rational numbers.

3. Expressions and Equations

- Apply and extend previous understandings of arithmetic to algebraic expressions.
- Reason about and solve one-variable equations and inequalities.
- Represent and analyze quantitative relationships between dependent and independent variables.

4. Geometry

• Solve real-world and mathematical problems involving area, surface area, and volume.

5. Statistics and Probability

- Develop understanding of statistical variability.
- Summarize and describe distributions.

MENTAL MATH/ VEDIC MATH

Vedic and mental math courses will be taught depending on level.

BENEFITS OF VEDIC MATH

- Reduces finger counting & scratch work and improves mental calculation.
- Helps students solve mathematical problems significantly faster.
- Enhances logical thinking process.
- Improves concentration.
- Useful in the aptitude exams.
- Helps in quick entrepreneurial and managerial decisions.

BENEFITS OF MENTAL MATH

- Improves visualization.
- Allow math calculation "in mind" without using pencil and paper.
- Helps in rounding numbers and estimating calculations eventually helping in quicker entrepreneurial decisions.

References

- 1. New York Common Core Math Standards.
- 2. Massachusetts Common Core Math Standards.



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