



## Smart Quantitative Skills using Vedic Methods

### Module 1: Subtraction & Compliments (Foundation)

This module lays the groundwork for Vedic Maths by introducing students to its origins, benefits, and the fascinating logic behind rapid calculations. Through engaging stories and patterns, learners begin to view maths as a creative and enjoyable subject. The concept of compliments—"all from 9 and last from 10", forms the core of this foundational module.

Students practice subtraction using compliments with two-digit, three-digit, and larger numbers, developing speed and confidence. Special subtraction techniques involving bases like 100 or 5000 make big numbers easy to handle. Real-life math games and challenges turn learning into fun, helping students build a positive association with maths.

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### Module 2: Multiplication Basics

This module introduces students to the basics of fast multiplication using Vedic principles. They start by learning balancing numbers and 9's logic, which enables rapid mental calculations. Techniques like multiplying by 11, 111, and other repeating digit numbers are taught in a step-by-step way.

Visual and interactive methods like the criss-cross technique make it easy to multiply two- and three-digit numbers quickly. As students master patterns in numbers, they begin to approach multiplication with curiosity and confidence. This module forms a strong foundation for the advanced methods that follow.

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### Module 3: Smart Multiplication with Base Method

This module focuses on multiplying numbers close to base values like 10, 100, or 1000 using the unique Vedic "base method." Students discover that multiplying  $99 \times 97$  or  $102 \times 106$  can be done in seconds without traditional steps. It's all about spotting patterns and applying simple logic.

Both above-base and below-base techniques are covered, allowing learners to handle a wide range of numbers. Multiplication tricks with numbers ending in 1 and specific cases like multiplying by 5, 25, and 75 are also introduced. With continued practice, students start seeing multiplication not as a task, but as a puzzle they enjoy solving.

## **Module 4: Division, Fractions & Squares**

Students dive into exciting division methods using the 9's logic and base division techniques that reduce multi-step division into simple mental steps. Whether dividing by 5, 25, or even 101, students gain fluency and confidence with every session.

They also explore smart tricks for converting decimals to fractions, simplifying them, and understanding patterns in square numbers. Butterfly methods for adding and subtracting fractions make calculations fast and visual. This module also introduces the Japanese multiplication method, bringing variety and creativity to learning.

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## **Module 5: Roots, Series, Magic & Real-life Math**

In this module, learners explore the magical side of math while applying Vedic techniques to practical problems. They learn shortcuts to find perfect square roots, cube values, and recognize number series like the sum of consecutive numbers or odd/even patterns.

Students also understand key concepts like averages, HCF, LCM, and percentages in a way that's intuitive and fast. Techniques like the calendar trick and magic squares add fun and surprise, showing students how maths appears in daily life. The course ends with a confidence-boosting quiz and real-world money math that ties everything together.

## **Benefits of Learning Vedic Maths**

- Solve problems faster without a calculator
- Improve accuracy and boost confidence
- Make maths fun, not fearful
- Strengthen mental calculation and memory
- Perform better in school and competitive exams
- Use maths easily in daily life (shopping, time, money)
- Build a strong foundation for higher math learning
- Think smarter with pattern-based problem solving