

MENTAL & VEDIC MATHS

Helping young minds calculate faster than calculators

A 4-Level Mastery Program for Grades 3-12

🌟 Live Online Classes

🎯 Grades 3-12

🧠 Mental + Vedic Methods

Parent Syllabus & Program Guide

Welcome to the Program

Dear Parents, thank you for considering our Mental & Vedic Maths program for your child. This guide outlines exactly what your child will learn across our four levels — designed to build calculation speed, confidence, and a genuine love for numbers.

Why Mental & Vedic Maths?

Traditional school maths teaches *how* to calculate. Mental & Vedic Maths teaches your child to see numbers — spotting patterns, shortcuts, and elegant solutions that make calculation faster, more accurate, and far more enjoyable.



Calculation Speed

Children solve in seconds what others take minutes to compute — without calculators.



Confidence

Maths anxiety disappears. Children begin to *enjoy* numbers and volunteer answers in class.



Better Grades

Faster, more accurate work translates directly to higher scores on school tests and exams.



Exam Readiness

Powerful shortcuts for SAT, ACT, AMC, Olympiads, school competitions, and aptitude tests.



Logical Thinking

Vedic Sutras train pattern recognition — a skill that boosts science, coding, and reasoning.



Screen-Free Brain

Less calculator dependence. More natural number sense. Better memory and focus.

The Program At-A-Glance

Four progressive levels, each running ~24-26 one-hour sessions. Children join the level matching their grade and current ability.

L1

Foundations

Grades 3-4

24 sessions

L2

Multiplication Mastery

Grades 5-6

26 sessions

L3

Powers, Roots & Division

Grades 7-8

25 sessions

L4

Algebra & Exam Mastery

Grades 9-12

26 sessions

4

Levels

100+

Total Sessions

40+

Vedic Techniques

1:1 / Group

Class Formats

What Makes Our Program Different

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Three-Layer Lessons in Every Session

Every class has Foundation, Mastery, and Stretch tiers — so children who learn quickly are challenged, and those who need more time aren't rushed. Same room, different paces, real progress.

🧠

Reasoning Before Rote

We don't just teach *how* a trick works — we always teach *why*. Children retain better, apply techniques to new problems, and develop true number sense.

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Games & Real-World Applications in Every Session

Every hour includes a speed challenge, a leaderboard moment, or a real-life problem (shopping, sports scores, exam questions). Maths becomes something children *want* to do.

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Take-Home Practice + Progress Tracking

Every session ends with bite-sized homework. Parents receive periodic progress updates showing what their child has mastered and what's next.

1 Foundations

Grades 3-4 (Ages 8-9) • 24 sessions • Beginner-friendly

 By the end of Level 1, your child will:

- Know multiplication tables 2-10 with deep understanding (not just memorization)
- Add and subtract 2- and 3-digit numbers mentally, left-to-right
- Perform "magic" multiplications by 11 and 9 instantly
- Self-check their own homework using Vedic verification methods
- Apply maths confidently to money, shopping, and everyday problems

Session	Topic	Module
1	The Ten-Point Circle & Number Bonds (Buddy System)	Tables & Number Sense
2	Tables of 2 & 4 — The Power of Doubling	Tables & Number Sense
3	Table of 8 — The Triple Double	Tables & Number Sense
4	Table of 5 — The "Half & Zero" Secret	Tables & Number Sense
5	Table of 10 & Place Value — The Hero Zero	Tables & Number Sense
6	Table of 9 — Magic Fingers & Number DNA	Tables & Number Sense
7	Tables of 3 & 6 — The Double-Up Connection	Tables & Number Sense
8	Table of 7 & Hard Tables — Using Complements	Tables & Number Sense
9	The Commutative Property — The Turnaround Rule	Addition & Subtraction
10	Spark Addition — Left-to-Right Magic	Addition & Subtraction
11	Century Buddies — Pair to 100	Addition & Subtraction
12	Mental Column Addition	Addition & Subtraction
13	Nikhilam Subtraction (Base 100)	Addition & Subtraction
14	Nikhilam Subtraction (Base 1000) & Mixed Bases	Addition & Subtraction
15	Multiplication by 11 — Instant Magic	Magic Tricks
16	Multiplication by 11 — 3-digit Numbers	Magic Tricks
17	Multiplication by 9 Series (×9 trick)	Magic Tricks
18	Multiplication by 99 & 999	Magic Tricks
19	Digital Root + Casting Out 9s (The Answer Checker!)	Smart Tools
20	Homework Proofreader — Self-Verification	Smart Tools
21	Doubling & Halving Strategy	Smart Tools
22	Divisibility Detectives + Number Splitting	Smart Tools
23	Money Math & Real-Life Applications	Real World
24	Grand Mastery Finale & Tournament 🏆	Mastery

2 Multiplication Mastery

Grades 5-6 (Ages 10-11) • 26 sessions • Builds on Level 1 or fresh start

🕒 By the end of Level 2, your child will:

- Multiply any 2-digit and 3-digit numbers in their head using the Crosswise method
- Square numbers ending in 5 (and near 50) instantly
- Add, subtract and compare fractions visually
- Convert fractions to decimals — and spot the magical recurring patterns
- Solve geometry word problems with logic, not formulas

Session	Topic	Module
1-4	Universal Crosswise Multiplication 2×2 (Urdhva-Tiryagbhyam)	Multiplication
5-8	Expanded Criss-Cross 3×3 Multiplication	Multiplication
9-10	Instant Squares Ending in 5	Speed Squares
11-12	Squares Near 50 — Yavadunam Method	Speed Squares
13-14	Antyayor Dasakepi — Numbers Whose Last Digits Sum to 10	Speed Squares
15-16	Base Method Multiplication Near 100 (Below Base)	Base Method
17	Above-Base Multiplication (Near 100)	Base Method
18	Numbers on Either Side of the Base	Base Method
19	Multiplication by the Series of 9s (Refresher + Advanced)	Base Method
20-21	Visual Fractions — Butterfly Method	Fractions & Decimals
22	Comparing Fractions the Vedic Way	Fractions & Decimals
23	Vedic Decimal Conversion	Fractions & Decimals
24	Recurring Decimal Patterns (1/7, 1/13 Magic)	Fractions & Decimals
25	Divisibility by 4, 8, & 11 + Area & Perimeter Logic	Applications
26	Level 2 Tournament 🏆	Mastery

3 Powers, Roots & Division

Grades 7-8 (Ages 12-13) • 25 sessions • Pre-algebra foundation

-  **By the end of Level 3, your child will:**
- Square and cube two-digit numbers entirely in their head
 - Find square roots and cube roots of perfect (and approximate) numbers mentally
 - Divide large numbers in a single horizontal line using Vedic division
 - Solve linear equations and simple algebraic problems in one step
 - Use Vinculum numbers — a powerful technique for cleaner calculations

Session	Topic	Module
1-2	Squaring Mastery — Yavadunam for Any Base	Squares & Cubes
3-5	Cubing 2-Digit Numbers (Anurupyena)	Squares & Cubes
6-8	Square Roots of Perfect Squares	Roots
9-11	Cube Roots of Perfect Cubes	Roots
12	Approximate Square & Cube Roots	Roots
13-15	Paravartya Division (One-Line Long Division)	Vedic Division
16-18	Nikhilam Division (Division Near a Base)	Vedic Division
19	Auxiliary Fractions for Division	Vedic Division
20-21	Linear Equations in One Step	Algebra Ready
22	Proportionality (Anurupyena Applications)	Algebra Ready
23	HCF, LCM & Pythagorean Triads (Vedic Patterns)	Algebra Ready
24	Introduction to Vinculum Numbers	Smart Tools
25	Level 3 Graduation 	Mastery

4 Algebra & Exam Mastery

Grades 9-12 (Ages 14-18) • 26 sessions • SAT/ACT/Olympiad-aligned

 By the end of Level 4, your child will:

- Master Flag Division — divide any number by any number in one line
- Solve simultaneous equations & quadratic factorization mentally
- Crack SAT, ACT, AMC, and competitive exam quant sections with Vedic shortcuts
- Handle real-world maths: percentages, compound interest, GST, discounts, time-speed-distance
- Perform "party trick" calculations like calendar dates and complex powers

Session	Topic	Module
1-4	The Crowning Gem — Flag Division	Vedic Division
5-8	Simultaneous Equations Solved Mentally	Advanced Algebra
9-12	Quadratic Factorization the Vedic Way	Advanced Algebra
13	Polynomial Criss-Cross Expansion	Advanced Algebra
14-16	SAT / ACT Quantitative Hacks	Exam Prep
17-18	Mental Percentages + Compound Interest	Exam Prep
19	GST, Discount & Tax Mental Math	Real-World Math
20	Time-Distance-Speed Vedic Shortcuts	Real-World Math
21	Calendar Magic — Date → Day of Week	Real-World Math
22	Coordinate Geometry Shortcuts	Advanced Topics
23	Trigonometric Estimation	Advanced Topics
24-25	AMC 8/10 Problem Solving	Competition Prep
26	Complex Roots, Powers & Grand Master Finale 🏆	Mastery

How the Classes Work

Frequency

2 sessions per week, 1 hour each.
Most levels complete in 12-13 weeks.

Format

Live online via Zoom with interactive whiteboard, worksheets, and recordings of every class.

Class Size

Small group cohorts (max 6 students) or 1:1 personal coaching.

Homework

5-8 short practice problems per session. Parents receive answer keys.

Progress

Regular progress reports + parent-teacher check-ins.

Certification

Level completion certificate awarded after every Mastery Finale.

What a Typical Session Looks Like

Every 60-minute class follows a proven structure designed to maximize engagement and retention:

Time	Activity
0-5 min	Energizer warm-up & mental math game
5-10 min	Quick recap of previous session
10-25 min	New technique — story, demonstration, & the reasoning behind it
25-40 min	Guided practice with the teacher
40-50 min	Independent practice (3-layered: Foundation, Mastery, Stretch)
50-55 min	Speed challenge or game
55-60 min	Wrap-up, homework, and a preview of the next session