



MathX

BY



GRADE 4 CURRICULUM



Aligned with CBSE
Curriculum



Aligned with ICSE
Curriculum



Designed with International learning
Standards (IB & IGCSE) in mind

Grade 4 curriculum

MathX
by



MathX Program – Grade 4

Strengthening Skills, Inspiring Smart Thinking

At Nool and Numbers Academy, we believe every child can enjoy and excel in math when taught the right way.

Our **MathX – Grade 4** program helps students move beyond basic arithmetic to explore higher-order concepts with clarity and confidence. Combining Academic Math, Real-Life Math, Logical Math, and Competitive Math, we create curious, confident problem solvers who see math not just as a subject – but as a life skill.

1. Academic Math – Mastering Core Concepts

In **Grade 4**, students build fluency in all four operations, dive deeper into fractions and geometry, and begin exploring multi-step problem-solving.

Our lessons blend activity-based learning with logical reasoning to make every concept clear and enjoyable.

Syllabus Overview – Grade 4

Numbers and Numeration: Reading and writing numbers (up to 1,00,000), Place value (ones, tens, hundreds, thousands, ten-thousands), Comparing, ordering, and rounding numbers, Even and odd numbers, Expanded form and standard form

Basic Operations: Addition and subtraction (up to 5-digit numbers), Word problems (real-life scenarios), Multiplication: tables, properties of multiplication, 2-digit × 1-digit, 2-digit × 2-digit, Division: long division, simple word problems

Fractions and Decimals: Fractions like and unlike fractions, simplest form, addition and subtraction, Decimals introduction, tenths and hundredths, Conversion between fractions and decimals (basic)

Geometry: 2D shapes: triangle, square, rectangle, circle, quadrilaterals, polygons, 3D shapes: cube, cuboid, sphere, cylinder, cone, Lines: parallel, perpendicular, intersecting, Angles: right, acute, obtuse, Symmetry, mirror images, rotation, Position and direction

Measurement: Length: cm, m, km, Weight: g, kg, Capacity: ml, litre, Time: reading clock (hours, minutes, seconds), calendars, Perimeter and area of squares and rectangles, Money: addition, subtraction, simple problems

Patterns and Number Sequences: Number patterns, skip counting, multiplication patterns, Odd-even patterns, Shapes and colour patterns

Data Handling: Collecting and recording data, Pictographs, bar graphs, simple interpretation

Outcome: Builds confidence in handling big numbers, fractions, and geometry – forming a solid base for upper primary and competitive math.

2. Real-Life Math - Math in Everyday Life



Math comes alive when children see it in action!

Our Real-Life Math lessons show how numbers, shapes, and measurements are used in shopping, travel, recipes, games, and nature.

Students learn budgeting, unit conversions, and simple data interpretation through hands-on examples and activities

Outcome: Students understand how math connects to their daily world – making learning meaningful and enjoyable.

3. Logical Math - Thinking Beyond Numbers

MathX for Grade 4 introduces structured reasoning through creative exercises curated by expert educators. Students explore topics like pattern sequences, direction sense, logical ordering, mirror and water images, analogy problems, and quick math tricks for faster calculation.



Outcome: Develops logical reasoning, critical thinking, and analytical ability – essential for Olympiads and higher studies.

4. Competitive Math - Early Olympiad Readiness



Our Competitive Math program takes students beyond the textbook to explore problem-solving at a higher level.

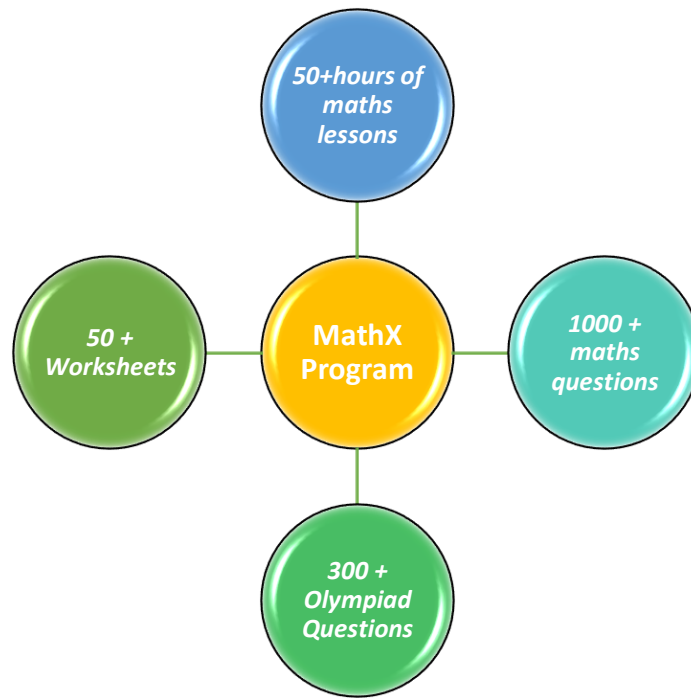
They practice Olympiad-style questions, multi-step reasoning problems, and mental math challenges that strengthen accuracy and speed.

Weekly challenge sheets and math contests help children think deeper and perform better in competitive exams like SOF IMO, NSTSE, and more.

Outcome: Builds a strong mathematical mindset, faster calculation skills, and confidence to tackle non-routine problems.

Why Choose MathX - Grade 4?

- ✓ Strengthens arithmetic and problem-solving fluency
- ✓ Makes math practical and enjoyable
- ✓ Builds logical and creative reasoning
- ✓ Prepares early for Olympiads and competitive exams
- ✓ Boosts confidence and curiosity in every learner



How Our MathX Program Work?



1:1 Personal Attention



Interactive live sessions
- not recorded



Logical thinking & Problem
Solving focus



Expert Teacher for
every subject



Affordable & Flexible timings

Our Teaching Methodology

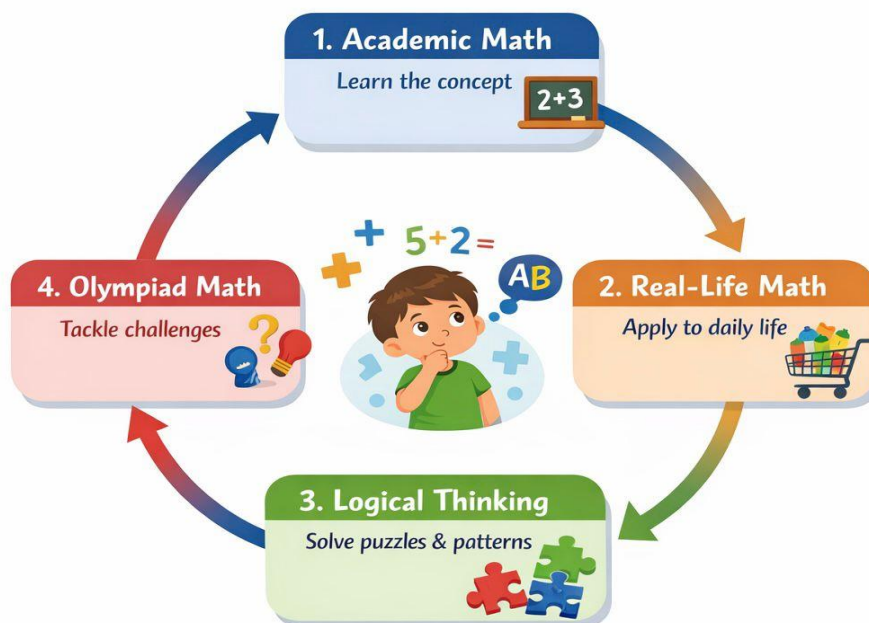
MathX follows an Integrated Learning Model where every concept is taught in four connected layers:

- ✓ Academic Understanding - Concept clarity aligned with school curriculum
- ✓ Real-Life Application - Connecting math to everyday experiences
- ✓ Logical Reasoning - Developing thinking and observation skills
- ✓ Olympiad Exposure - Encouraging advanced and creative problem-solving

Each topic is completed only after the child demonstrates understanding across all four layers.

How We Teach MathX

One Concept – Four Ways of Learning!



Understand • Apply • Think • Achieve!

In a Simple Way:

"We always teach Academic Math first.

Once the child understands the concept clearly, we immediately apply the same topic in three ways:

- ✓ Real-life situations
- ✓ Logical thinking activities
- ✓ Olympiad-style questions

For example, when we teach addition:

- ✓ First, we teach how to add numbers properly
- ✓ Then we show how addition is used in daily life (shopping, toys, money)
- ✓ Then we give thinking-based and Olympiad-style questions on the same addition

This way, children don't just learn 'how to do', they understand why and where to use it."

At Nool and Numbers Academy: Where Every Child Learns to Think, Reason, and Excel in Math...!