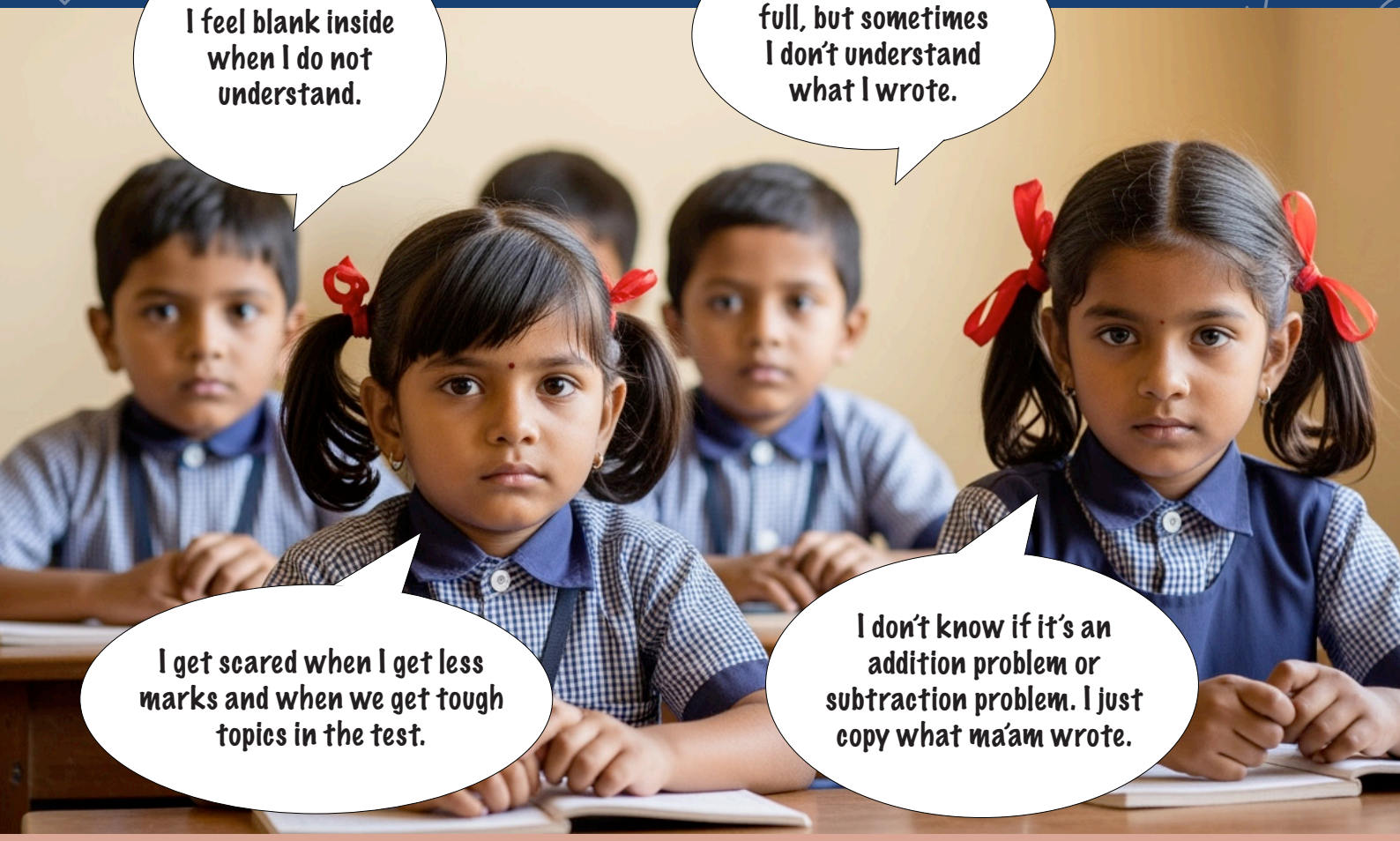
AML+

THE MATH SIDE OF ax

ASSISTED MATH LEARNING

Helping Every Child Build Confidence in Math



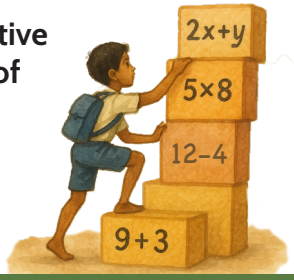
Across our schools, children are struggling to get Math. Research consistently shows that many children experience deep anxiety when it comes to mathematics. The reasons are not always about aptitude — they are rooted in the inherent challenges in math and how it is practised and experienced.

THE PROBLEM

WHY SO MANY CHILDREN STRUGGLE WITH MATH

Research consistently shows that many children experience deep anxiety when it comes to mathematics. Some reasons why this happens are below:

Cumulative Nature of Math

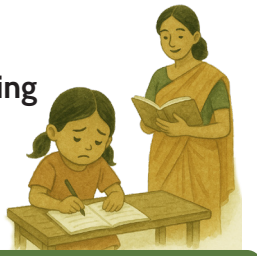


Early gaps in foundational understanding stack up, making later concepts more difficult.

Classroom Pressure

Fear of judgment and anxiety over mistakes make children disengaged.

Limited Conceptual Understanding



Often, students copy answers without fully understanding underlying concepts.

Challenges with Word Problems

Poor reading comprehension, complex language in textbooks, make word problems particularly difficult.

Lack of Individualised Attention

Teachers, despite their commitment, are unable to offer the one-on-one time many struggling students require.

Systemic Pressures

The demand for all students to 'pass' often masks real gaps in understanding.

HOW CHILDREN ACQUIRE NUMERACY

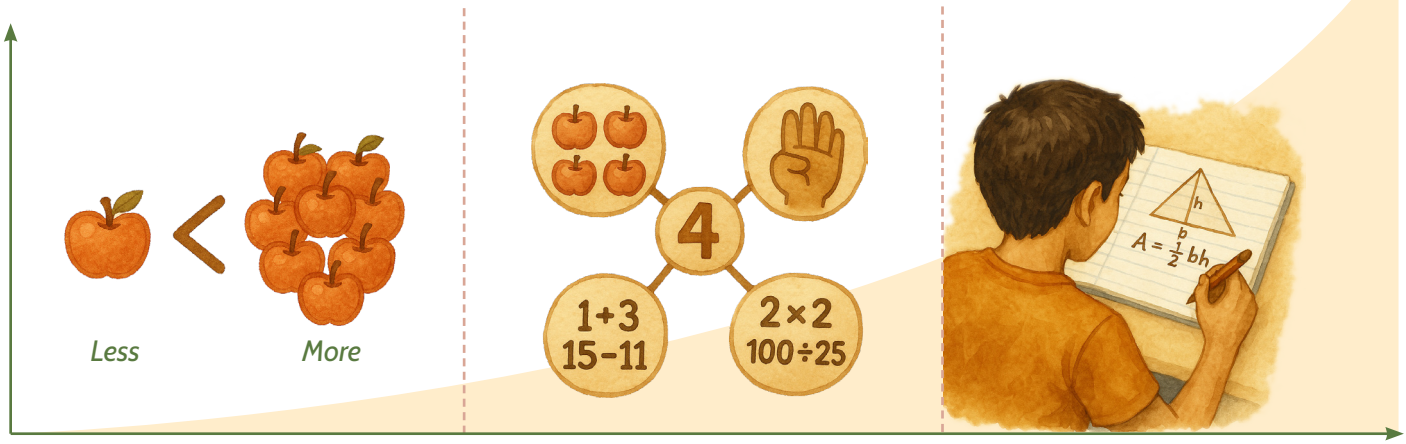
The child already has some base knowledge
Children have a sense of larger and smaller amounts and other such facts

→

Mapping number sense
Mapping 'number sense' consists of associating this sense with symbols and understanding how symbols and operators come together

→

Making sense with numbers
Finally, they can use their 'number sense' to make sense of the real world and improve their understanding of it



Children move from an intuitive sense of numbering to mapping this sense to symbols called numbers to being able to use numbers in real life.

THE AML APPROACH

A SAFE SPACE FOR BUILDING FLUENCY

AML (Assisted Math Learning) is deliberately designed to address these very issues:

- Safe, Judgment-Free Practice Environment
- Diagnostic Precision
- Building Number Sense First
- Progressive Mastery Through Fluency

MATH COMPETENCIES

Unit Name	Competency Example (Grade 1 to 5)
Information Processing	Sorts objects into groups and sub-groups based on more than one property
Money	Performs simple transactions using money up to INR 100

Unit Name	Competency Example (Till Grade 2)	Competency Example (Grade 3 to 5)
Numbers	Performs addition and subtraction of 2-digit numbers fluently using flexible strategies of composition and decomposition of both numerical and word problems	Understands and visualises arithmetic operations and the relationships among them, knows addition and multiplication tables at least up to 10x10 (pahade) and applies the four basic operations on whole numbers to solve daily life problems
Patterns	Identifies and extends simple patterns in their surroundings, shapes, and numbers	Recognises, describes, and extends simple number patterns such as odd numbers, even numbers, square numbers, cubes, powers of 2, powers of 10, and Virahanka–Fibonacci numbers
Geometry	Recognises, makes, and classifies basic geometric shapes and their observable properties, and understands and explains the relative relation of objects in space	Identifies, compares, and analyses attributes of two- and three-dimensional shapes and develops vocabulary to describe their attributes/properties
Measurement	Selects appropriate tools and units to perform simple measurements of length, weight, and volume of objects in their immediate environment	Measures in non-standard and standard units and evaluates the need for standard units
Time	Performs simple measurements of time in minutes, hours, day, weeks, and months	

[This is illustrative only. Not an exhaustive list.]

Topics Already Present in AML
Topics to be added Later

THE FUTURE ROADMAP

GROWING WITH THE CHILD

While the current focus is on mastering basic operations and strengthening foundational skills, AML is poised to expand into broader math domains:

APPLICATION-ORIENTED LEARNING

- Number Sense
- Number Operations
- Shape, measurement, time & money
- Word problems & real-world applications

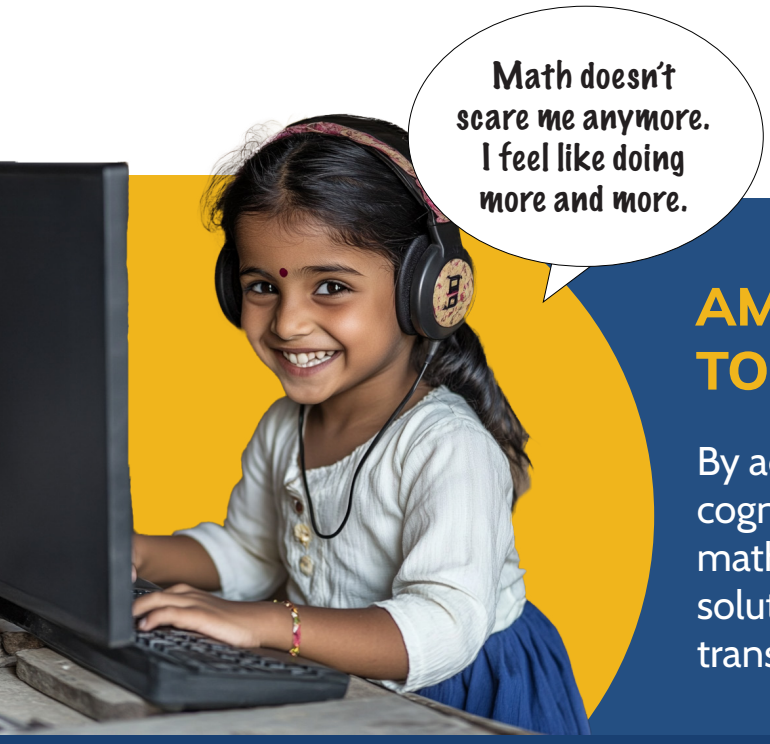
THE AML DIFFERENCE

Adaptive and Individualised
Each child progresses based on their current level, ensuring mastery before moving ahead.

No Fear of Mistakes
Errors are treated as learning opportunities, not failures.

High Teacher Acceptance
Teachers report reduced classroom disruption, better focus, and a sense of shared responsibility for student success.

Sustained Motivation for Children
Students express growing enjoyment, confidence, and a desire to do more, transforming their relationship with math.



AML: FROM CONFUSION TO CONFIDENCE

By addressing both the emotional and cognitive barriers children face in learning math, AML offers a scalable, evidence-backed solution for administrators seeking to truly transform foundational numeracy.