

from KG to Year 8

- Success: Preparing students for GCSE/IGCSE achievement.
- Confidence: Building strong skills in numbers and operations.
- Curiosity: Fostering problem-solving through engaging activities.
- **Skills:** Strengthening algebra, geometry, and data understanding.



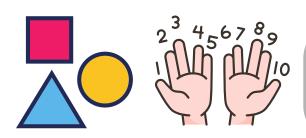




KHDA APPROVED & INSPECTED TEACHERS

EXPERIENCED & OUALIFIED TEACHERS

Math Progression Summary

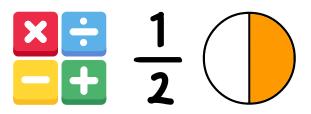


Foundation - Kindergarten

- Counting
- Comparison
- Shapes & Pattern

Key Stage 1 - Year 1 to 2

- Basic Math Operations,
- Simple Fractions,
- Time & Measurement
- Place Value





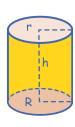
Lower Key Stage 2 - Year 3 to 4

- Basic Multiplication and Division,
- Geometry (Angles, Perimeter, Area)
- Fractions & Decimals
- Data Handling & Problem Solving

Upper Key Stage 2 - Year 5 to 6

- Ratio & Proportion
- Statistics & Graphs
- Exam Prep & Reasoning
- Geometry (Symmetry, Transformations, Volume)













Key Stage 3 - Year 7 to 8

- Algebra (Expressions, Equations, Sequences)
- Geometry (Circles, Pythagoras, Trigonometry)
- Probability & Statistics
- Geometry (Symmetry, Transformations, Volume)
- Graphs & Function
- Exam Prep & Reasoning

Foundation - Kindergarten

Focus: Building number sense, recognising shapes, patterns, and early problem solving.

Activities:



Numbers & Counting: Using blocks and beads to count, match, and order numbers — builds recognition and sequencing skills.



 Shapes & Patterns: Shape hunts and puzzles help children identify shapes in their environment and create repeating patterns.



Comparisons: Sorting by size, colour, and weight develops early logical thinking and vocabulary ("bigger/smaller", "heavier/lighter").



Early Problem Solving: Role-play shop games and math stories encourage reasoning, sharing, and applying numbers to real-life contexts.







Key Stage 1 - Year 1 to 2

Focus: Understanding place value, basic operations, and exploring measurement.

Activities:



 Place Value & Operations: Using number lines and counters to solve addition/subtraction — builds strong mental math foundations.



 Multiplication & Division: Times table songs and flashcards improve recall, while grouping objects builds conceptual understanding.



 Fractions: Folding paper and "fraction pizzas" make halves/quarters tangible and fun.



Measurement & Time: Measuring classroom items with rulers, weighing ingredients, and practising clocks build real-life numeracy.



Geometry (2D/3D Shapes): Constructing with blocks or drawing shapes develops spatial reasoning.







Lower Key Stage 2 - Year 3 to 4

Focus: Strengthening multiplication, fractions, geometry, and data handling.

Activities:



- 🔀 <mark> • Multiplication & Division:</mark> Speed drills and multiplication bingo sharpen fluency.
- **←.0**∘ **Fractions & Decimals:** Using a fraction wall or coins helps children link fractions to money and real-world usage.



 Geometry (Angles, Perimeter, Area): Measuring classroom objects, identifying angles in the environment, and using grid paper builds geometry skills.



- Data Handling: Collecting survey data and presenting it as bar charts or pictograms encourages analytical thinking.
- Problem Solving: Word problem tasks and puzzle challenges build resilience and reasoning.





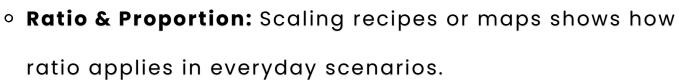


Upper Key Stage 2 - Year 5 to 6

Focus: Mastering fractions, decimals, percentages, ratio, and problem solving in real-life contexts.

Activities:

←.O∘ Fractions, Decimals, Percentages: Budgeting and shopping role plays develop skills in applying discounts and comparing values.



Geometry (Symmetry, Transformations, Volume): Mirror symmetry drawing and 3D shape nets reinforce visualization and spatial awareness.

 Statistics & Graphs: Creating line graphs from science experiments and interpreting real-world data builds cross-subject connections.

Exam Prep & Reasoning: Quizzes and timed activities strengthen focus, accuracy, and test readiness.











Key Stage 3 - Year 7 to 8

Focus: Preparing students for GCSE/IGCSE with algebra, geometry, probability, and reasoning.

Activities:



 Algebra (Expressions, Equations, Sequences): Puzzlebased algebra tasks, number pattern investigations, and real-life problem-solving scenarios to strengthen abstract thinking.



Geometry (Circles, Pythagoras, Trigonometry):

Practical measuring (e.g., applying Pythagoras outdoors with tape) connects math to the real world.



 Probability & Statistics: Dice and card experiments illustrate probability, while tree diagrams build systematic reasoning.



Graphs & Function: Plotting linear and quadratic graphs, interpreting distance-time graphs, and linking mathematics with science.



Exam Prep & Reasoning: Quizzes, past-paper style questions, and timed practice activities to strengthen accuracy, speed, and exam confidence.

How Parents Can Support Math Learning at Home?

Build Everyday Number Confidence

- o Ask them to add up items while grocery shopping.
- Let them handle change and calculate how much money is left.
- o Involve them in measuring ingredients while cooking.

Encourage Problem-Solving

- o Puzzles, Sudoku, and math board games like Monopoly.
- Ask them to estimate: "How many steps do you think it will take to get to the kitchen?"
- Ask them to plan how many slices of pizza each person gets.

Connect Math to Daily Life

- Read bus timetables or flight schedules together.
- Compare discounts while shopping.
- Use maps and ask about distances: "If we walk 2 km each day, how far in a week?"