



## Little Aston Primary Academy Progression in Mathematics

Mathematical Domain	EYFS	Year 1 (KS1)	Year 2 (KS1)	Year 3 (LKS2)	Year 4 (LKS2)	Year 5 (UKS2)	Year 6 (UKS2)
<b>Number &amp; Place Value</b>	Recognise, count, and order numbers to 20+; understand one-to-one correspondence and cardinality	Count, read, write numbers to 100; understand place value; compare and order numbers	Count in steps of 2, 3, 5, 10; understand place value to 1000; compare and order numbers	Understand place value to 10,000; round numbers; read and write in digits and words	Understand place value to 100,000; round numbers; negative numbers introduced	Understand place value to 1,000,000; round numbers; use negative numbers	Confident use of place value; round large numbers; use negative numbers in context
<b>Addition &amp; Subtraction</b>	Use practical activities to add and subtract small numbers	Develop mental and written methods; solve simple one- and two-step problems	Use formal written methods; solve problems with increasing complexity	Use formal written methods; solve multi-step problems	Use efficient written methods; solve problems including money and measures	Use formal methods confidently; solve multi-step problems including decimals	Solve complex multi-step problems; reason about addition and subtraction
<b>Multiplication &amp; Division</b>	Recognise repeated addition; simple grouping	Recall and use multiplication/division facts for 2, 5, 10; solve simple problems	Recall multiplication tables up to 10x10; use formal written methods	Recall multiplication tables up to 12x12; solve problems using multiplication and division	Multiply and divide using formal written methods; solve problems involving factors	Multiply and divide larger numbers; solve problems involving fractions and decimals	Use formal methods fluently; solve complex problems including fractions, decimals, and percentages
<b>Fractions &amp; Decimals</b>	Understand simple halves and quarters in practical contexts	Recognise and find $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{3}$ of shapes and quantities	Recognise equivalent fractions; add and subtract simple fractions	Understand decimals to two places; compare and order fractions and decimals	Convert between fractions, decimals, and percentages; solve ratio problems	Calculate with fractions and decimals; solve problems involving percentages	Confidently calculate with fractions, decimals, and percentages; solve ratio and proportion problems



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<b>Measurement</b>	Compare and order objects by length, weight, capacity; use language of time	Measure length, mass, volume, and time using standard units	Convert between units; calculate perimeter and simple area	Convert units; calculate area and perimeter of complex shapes	Calculate volume; solve problems involving time, money, and measures	Solve problems involving all measures; calculate volume and surface area	Solve complex problems involving measures, including compound measures and conversions
<b>Geometry: Properties of Shapes</b>	Recognise common 2D and 3D shapes; use positional language	Identify and describe properties of 2D and 3D shapes	Classify shapes by properties; identify angles; symmetry	Understand angles; classify shapes; use coordinates in first quadrant	Understand properties of shapes; use coordinates in four quadrants	Calculate angles; understand geometric transformations	Use geometric reasoning; solve problems involving construction
<b>Geometry: Position &amp; Direction</b>	Use positional language; describe movement	Describe position, direction, and movement including half, quarter, and three-quarter turns	Use coordinates to describe position; understand movement on grids	Use coordinates; describe translations and reflections	Understand and describe rotations and translations	Use and describe all transformations; solve problems on grids	Reason about position, direction, and movement; solve complex geometric problems
<b>Statistics</b>	Collect and sort objects; use simple charts	Interpret and construct simple pictograms and tally charts	Use bar charts and tables to present data	Interpret and present data using various graphs	Calculate averages (mean, median, mode); interpret data	Solve problems involving data; interpret complex graphs	Use statistics to interpret data; solve problems involving probability
<b>Mathematical Reasoning &amp; Problem Solving</b>	Use mathematical language to explain thinking; solve simple practical problems	Explain methods and reasoning using mathematical language	Develop explanations and justifications; solve one- and two-step problems	Reason mathematically; solve multi-step problems; justify answers	Use precise mathematical language; solve increasingly complex problems	Apply reasoning to unfamiliar problems; use formal methods to justify conclusions	Use deductive reasoning; solve complex, non-routine problems; present mathematical arguments



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<b>Use of ICT &amp; Calculators</b>	Use ICT tools to explore patterns and numbers	Use simple ICT tools to support learning	Use ICT tools to explore mathematical concepts	Judicious use of ICT to support understanding	Introduce calculators near end of KS2 for complex calculations	Use calculators appropriately; support conceptual understanding	Use ICT and calculators effectively for problem solving and modelling
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