

Ropemakers Academy Maths Curriculum Content 2025-26
Primary: Years 3 - 6

Stage / Year	Term 1 (Autumn)	Term 2 (Spring)	Term 3 (Summer)
Maths Foundations	Foundation Exploration: <ul style="list-style-type: none"> • Counting: Step 1 Saying/Reading. • Shape: Exploring & Drawing (Step 1), basic 2D & 3D shapes. • Measure: Basic Distance, Mass, and Time (Step 3). • Pattern: Pattern Spotting (Step 2). 	Expanding Basics: <ul style="list-style-type: none"> • Counting: Reading numbers, Saying Numbers (Step 2). • Measure: Introducing Money (Step 1), Space, and Temperature (Steps 1-2). • Position: Basic Direction and Position (Steps 2-3). • Shape: Continued 2D/3D exploration. 	Applying Skills: <ul style="list-style-type: none"> • Data: Simple Diagrams & Tables (Step 2). • Measure: Amounts of Turn, Time (Step 4), and Money (Step 2). • Pattern: Advanced Pattern Spotting (Step 3). • Shape: 2D Shape properties (Step 2).
Pre-Stage 1	Early Number & Space: <ul style="list-style-type: none"> • Number: Saying numbers (Step 1), Actual Counting (Step 1). • Shape: 2D Shapes (Step 3), 3D Shapes (Step 2), Position (Step 6). • Measure: Temperature (Steps 3-4), Time (Step 5), Turn (Step 1). • Pattern: Pattern Spotting (Step 4). 	Building Core Skills: <ul style="list-style-type: none"> • Number: Reading numbers (Step 1), Counting On (Step 1), Mastery of Numbers (Step 1). • Calculation: Basic Addition & Subtraction (Steps 1-2), Division basics (Step 1). • Fractions: Fractions of a set (Step 1). • Measure: Money, Mass, and Space (Step 3). 	Calculation & Measurement: <ul style="list-style-type: none"> • Number: Reading/Saying numbers (Step 2), Counting Multiples (Step 1). • Calculation: Addition/Subtraction (Steps 3-5), Multiplication (Steps 1-2), Division (Steps 2-5). • Data: Bar Charts (Step 1). • Fractions: Fractions of a set (Step 2).
Stage 1	Number Foundations: <ul style="list-style-type: none"> • Number: Reading/Saying numbers (Steps 3-4), Counting Multiples (Step 2). • Calculation: Addition/Subtraction (Step 5), Multiplication (Steps 3-4), Division (Step 5). • Fractions: Fractions of a whole (Steps 1-2), Fractions of a set (Step 3). • Shape: 2D Shape properties (Step 10), Position (Step 9). 	Progressing Calculation: <ul style="list-style-type: none"> • Number: Reading numbers (Step 5), Counting Multiples (Step 2). • Calculation: Addition/Subtraction (Steps 6-9), Division (Step 6). • Measure: Time (Steps 11-13), Telling the Time (Steps 1-3). • Fractions: Fractions of a whole (Step 2), Fractions of a set (Step 4). 	Measurement & Logic: <ul style="list-style-type: none"> • Number: Place Value (Step 1), Multiples (Step 3), Counting Along Scales. • Calculation: Addition/Subtraction (Steps 10-12), Multiplication (Steps 5-6), Division (Steps 7-11). • Data: Line Graphs (Step 1), Bar Charts (Step 2), Diagrams (Steps 7-12). • Logic: Algebra basics (Steps 1-2), "Prove It!" logic.

<p>Stage 2</p>	<p>Place Value & Addition:</p> <ul style="list-style-type: none"> • Number: Place Value (Step 1), Mastery (Step 2). • Calculation: Addition/Subtraction (Steps 13-15), Multiplication (Steps 7-8). • Measure: Time (Steps 14-16), Telling Time (Steps 5-6), Turn (Step 4). • Shape: 2D Shapes (Step 13), 3D Shapes (Step 10). 	<p>Multiplication & Sets:</p> <ul style="list-style-type: none"> • Number: Reading numbers (Step 6), Counting in 50s/500s/5000s and 1/2s. • Calculation: Addition/Subtraction (Steps 16-19), Division (Steps 13-15). • Fractions: Fractions of a set (Step 5), Counting in fractions. • Shape: 2D Shapes (Steps 14-16), 3D Shapes (Steps 11-13). 	<p>Fluency & Data Handling:</p> <ul style="list-style-type: none"> • Number: Counting in 20s/200s/2000s and 1/4s, Scales (Step 1). • Calculation: Addition/Subtraction (Steps 20-27), Multiplication (Step 9), Coin Multiplication. • Data: Bar Charts (Step 3), Line Graphs (Step 1). • Fractions: Fractions of a set (Steps 6-8), "It's Nothing New" fractions.
<p>Stage 3</p>	<p>Formal Columns:</p> <ul style="list-style-type: none"> • Number: Place Value (Step 2), Mastery (Step 3). • Calculation: Column Addition (Step 25), Subtraction (Step 28), Division (Step 17). • Measure: Amounts of Turn (Steps 7-10), Time (Step 19). • Fractions: Fractions of a whole (Steps 9-13), Calculation (Step 1). 	<p>Fact Families & Fractions:</p> <ul style="list-style-type: none"> • Number: Counting in 1000s, Scales (Step 2). • Calculation: Addition (Steps 26-27), Multiplication (Step 10). • Measure: Distance (Steps 11-13), Mass (Steps 11-12), Turn (Steps 11-12). • Fractions: Counting in fractions (Steps 8-9). • Data: Bar Charts (Steps 4-6). 	<p>Decimals & Analysis:</p> <ul style="list-style-type: none"> • Number: Place Value (Step 3), Decimal counting (0.1s). • Calculation: Column Subtraction (Step 29), Multiplication (Step 11), Division (Steps 18-19). • Fractions: Fractions of a set (Steps 9-10), Ratio (Step 3). • Data: Bar Charts (Steps 7-9), Diagrams (Steps 19-20).
<p>Stage 4</p>	<p>Negative Numbers & Columns:</p> <ul style="list-style-type: none"> • Number: Place Value (Step 4), Negative numbers, Counting in 250s/2500s. • Calculation: Multiplication (Steps 12-13), Division (Step 19). • Measure: Distance (Steps 19-22), Mass (Steps 15-16), Money (Step 15). • Fractions: Fractions calculation (Step 4). 	<p>Decimals & Position:</p> <ul style="list-style-type: none"> • Number: Decimal counting (0.25s), Scales (Step 4). • Calculation: Column Addition (Step 29), Multiplication (Step 14). • Measure: Temperature (Steps 8-11), Space/Area (Step 18). • Shape: Position & Direction (Steps 15-20). • Data: Bar Charts (Steps 10-11), Line Graphs (Step 3). 	<p>Scaling & Multiples:</p> <ul style="list-style-type: none"> • Number: Counting in 1/5s, Mastery (Step 7). • Calculation: Multi-digit Addition (Steps 30-31), Multiplication (Step 14), Division (Steps 20-23). • Fractions: Counting in fractions (Steps 13-16). • Algebra: Pattern Spotting and Algebra (Steps 5-8).
<p>Stage 5</p>	<p>Large Numbers & Angles:</p> <ul style="list-style-type: none"> • Number: Reading numbers to 1,000,000+, Place Value (Step 4). • Calculation: Multi-digit Subtraction (Step 31), Multiplication (Step 14), Division (Steps 24-25). • Measure: Turn & Angles (Steps 17-21). • Fractions: Fractions calculation (Steps 6-7), Ratio (Step 4). 	<p>Primes & Word Problems:</p> <ul style="list-style-type: none"> • Number: Negative number counting (-2s, -5s), Scales (Step 5). • Calculation: Column Addition (Steps 34-35), Subtraction (Steps 32-33), Multiplication (Steps 15-16). • Measure: Turn & Angles (Steps 22-24). • Data: Line Graphs (Steps 4-6). • Algebra: Pattern Spotting (Steps 10-14). 	<p>Probability & Volume:</p> <ul style="list-style-type: none"> • Number: Mastery (Steps 8-9). • Calculation: Advanced Addition (Steps 36-38), Subtraction (Steps 34-36), Division (Steps 28-31). • Measure: Mass (Steps 17-18), Space/Area/Volume (Steps 21-26), Temperature (Steps 12-14). • Data: Probability (Steps 1-7). • Percentages: Percentages (Steps 1-3).

<p>Stage 6</p>	<p>Mastering Operations:</p> <ul style="list-style-type: none"> • Number: Mastery (Step 10), Counting Scales (Step 7). • Calculation: Formal methods for all 4 operations (Add/Sub/Mult/Div). • Fractions: Calculation (Steps 18-20), Percentages (Steps 4-6), Ratio (Steps 9-11). • Data: Averages (Steps 1-7), Pie Charts (Steps 1-5). 	<p>Fractions & Algebra:</p> <ul style="list-style-type: none"> • Calculation: Completing all Basic Skills. • Fractions: Fractions calculation (Steps 21-25), Percentages (Steps 7-13). • Data: Averages (Steps 8-12), Pie Charts (Steps 6-11), Probability (Steps 8-15). • Algebra: Advanced Algebra (Steps 17-22), "Prove It!" (Step 6). 	<p>Transition Readiness:</p> <ul style="list-style-type: none"> • Review: Final review of all Progress Drives (CLIC & SAFE). • Assessment: Final "Big Maths Beat That" challenges to ensure secondary readiness. • Application: Solving multi-step problems across all areas of mathematics.
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Based on Ropemakers Academy 2025-26 Big Maths Coverage Documents

Secondary: Years 7 -11

KS4 Qualification Route: Years 10 & 11; Pathways to Adulthood: Entry Level & GCSE

Depending on which qualification pathway an individual student is taking, their specific areas of study may be slightly different in Years 10 & 11. This overview represents a suggested term-by-term breakdown, tailored to the specific ability level and cognitive profile of each group, but is subject to change accordingly

Stage / Year	Term 1 (Autumn)	Term 2 (Spring)	Term 3 (Summer)
Stage 7	<p>Data & Number Foundations:</p> <ul style="list-style-type: none"> • Analysing Data: Mode, median, range; pictograms, bar charts, and grouped data. • Number: Four operations; negative integers; powers and roots. • Equations: Introduction to algebraic expressions and simple equations. 	<p>Logic & Proportionality:</p> <ul style="list-style-type: none"> • Fractions: Comparing, adding, and subtracting fractions. • Angles: Measuring and drawing angles; properties of triangles and quadrilaterals. • Number Properties: Factors, multiples, and primes (HCF/LCM). 	<p>Geometry & Application:</p> <ul style="list-style-type: none"> • Sequences: Rule-based patterns and linear sequences. • Area/Perimeter: Rectangles, triangles, and compound shapes. • Transformations: Reflection, rotation, and translation on grids.
Stage 8	<p>Calculation & Algebra:</p> <ul style="list-style-type: none"> • Number: Written methods for decimals; divisibility; negative number arithmetic. • Algebra: Brackets, equations, and inequalities; formula rearrangement. • Decimals: Fractions to decimals; recurring decimals. 	<p>Geometry & Proportions:</p> <ul style="list-style-type: none"> • Area/Volume: Circles (area/circumference); volume of prisms and cylinders. • Real-life Maths: Currency conversion; distance-time graphs. • Expressions: Simplifying and index laws. 	<p>Statistics & Probability:</p> <ul style="list-style-type: none"> • Data: Stem-and-leaf diagrams; scatter graphs and correlation. • Probability: Sample spaces and calculating theoretical probability. • Percentages: Increase/decrease and multipliers.
Stage 9 (F)	<p>Core Mastery:</p> <ul style="list-style-type: none"> • Number: Systematic listing; operations with decimals and negative numbers. • Algebra: Linear graphs (gradient and $y=mx+c$); solving equations. • Decimals: Rounding to significant figures and decimal places. 	<p>Proportional Reasoning:</p> <ul style="list-style-type: none"> • Ratio: Sharing in a ratio; direct proportion; maps and scale. • Fractions/Percentages: Percentage change; simple interest; reverse percentages. • Probability: Relative frequency and Venn diagrams. 	<p>Spatial Maths:</p> <ul style="list-style-type: none"> • Geometry: Pythagoras' Theorem; properties of polygons; angles in parallel lines. • Measure: Area of trapezia; surface area and volume of prisms.

<p>Stage 10 (F)</p>	<p>Advanced Graphs & Logic:</p> <ul style="list-style-type: none"> • Graphs: Real-life graphs; quadratic and cubic graphs; midpoints of line segments. • Transformations: Enlargements and fractional scale factors. • Ratio: Compound units (speed, density, pressure). 	<p>Trigonometry & Sets:</p> <ul style="list-style-type: none"> • Trigonometry: Sine, cosine, and tangent ratios in right-angled triangles. • Probability: Tree diagrams and independent events. • Multiplicative Reasoning: Growth and decay. 	<p>Geometric Calculation:</p> <ul style="list-style-type: none"> • Construction: Loci and scale drawings. • Circles: Area of sectors and arc length. • Volume: Surface area and volume of pyramids, cones, and spheres.
<p>Stage 11 (F)</p>	<p>Refinement & Fluency:</p> <ul style="list-style-type: none"> • Number: Standard form (large/small numbers); indices laws; recurring decimal proofs. • Algebra: Solving simultaneous equations (graphical and algebraic). • Similarity: Congruence and similar shapes. 	<p>Problem Solving & Review:</p> <ul style="list-style-type: none"> • Graphs: Trigonometric graphs; reciprocal functions; non-linear graphs. • Algebra: Changing the subject of more complex formulae; algebraic proof. • Statistics: Cumulative frequency and box plots. 	<p>GCSE Preparation:</p> <ul style="list-style-type: none"> • Revision: Targeted review based on Mock exam performance. • Exam Technique: Past paper practice and final mastery of the Foundation specification. • Final Assessment: Terminal GCSE examinations.

Years 7-8 (KS3): Focuses on building fluency in number operations, introducing algebraic logic, and establishing geometric foundations.

Years 9-11 (Functional Skills or GCSE Foundation): Concentrates on applying mathematical skills to functional problems, covering the full Edexcel (9-1) Foundation specification, including Trigonometry, Standard Form, and Simultaneous Equations.