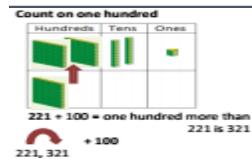
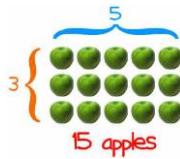
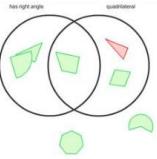
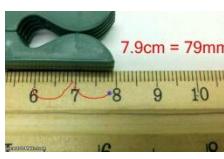
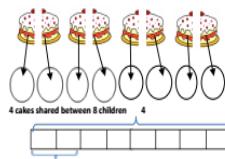
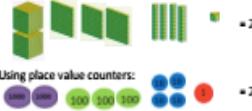
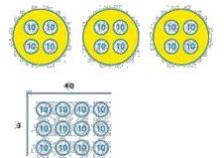
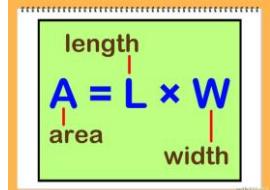
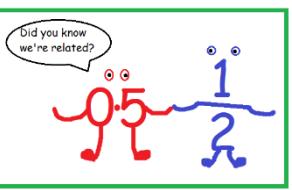
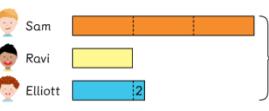


Curriculum Overview: Mathematics

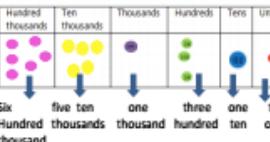
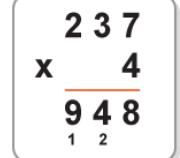
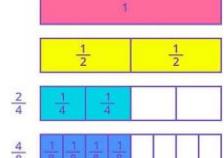
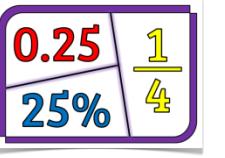
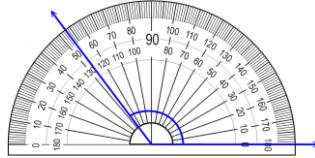
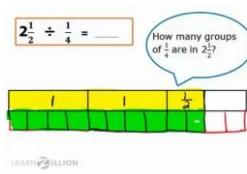
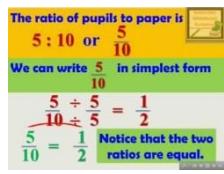
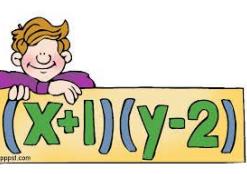
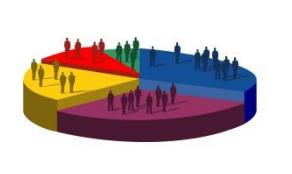
 Mathematics at Morningside
 Mastering Mathematics


	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p>We are fluent up to 10.</p> <ul style="list-style-type: none"> Counting Ordering Comparing Adding (10) Subtraction (10) 	<p>We are fluent up to 20.</p> <ul style="list-style-type: none"> Ordering One more One less Addition (20) Subtraction (20) 	<p>We are counting up to 50.</p> <ul style="list-style-type: none"> Counting Comparing Number facts Addition (20) Subtraction (20) 	<p>We are measuring and comparing.</p> <ul style="list-style-type: none"> Comparing, ordering & patterns Measuring Money problem solving 	<p>We are multiplying, dividing and finding fractions.</p> <ul style="list-style-type: none"> Counting, ordering and comparing Halves and quarters Multiples of 2, 5, 10 	<p>We are counting up to 100.</p> <ul style="list-style-type: none"> Counting Adding (100) Subtraction (100) money Time
Year 2	<p>We are adding and subtracting within 100.</p> <ul style="list-style-type: none"> Counting, ordering and comparing Addition and subtraction (100) Doubling 	<p>We are multiplying & dividing and using money.</p> <ul style="list-style-type: none"> Addition and subtraction (100) 1 and 2 step money problems Multiplying and dividing time 	<p>We are multiplying & dividing, using charts & exploring shapes</p> <ul style="list-style-type: none"> Addition and subtraction (100) Repeated addition and arrays Sharing & grouping Bar charts Properties of shape 	<p>We are using fractions and problem solving with measures.</p> <ul style="list-style-type: none"> Fractions of quantities Length and height Mass, capacity and temperature 	<p>We are solving problems and telling the time.</p> <ul style="list-style-type: none"> Problem solving & efficient methods Time Position and direction 	<p>We are solving investigations, and exploring shape and measure.</p> <ul style="list-style-type: none"> Position & direction Mass, capacity and temperature Properties of shape Investigations

Curriculum Overview: Mathematics

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	 <p>Count on one hundred Hundreds Tens Ones 221 + 100 = one hundred more than 221 is 321 221, 321 + 100</p>	 <p>15 apples</p>	 <p>has right angle quadrilateral</p>	 <p>7.9cm = 79mm</p>	 <p>4 cakes shared between 8 children 4</p>	 <p>Square Based Pyramids</p>
	<p>We are fluent and calculating to 1000.</p> <ul style="list-style-type: none"> Ordering, comparing and place value Adding and subtracting Multiplication and division 	<p>We are developing and refining our calculation methods.</p> <ul style="list-style-type: none"> Ordering, comparing and place value Adding and subtracting Multiplication and division money 	<p>We are multiplying, dividing and using statistics.</p> <ul style="list-style-type: none"> Mental strategies Multiplication and division Statistics 	<p>We are measuring and finding fractions.</p> <ul style="list-style-type: none"> Problem solving Identifying fractions Adding and subtracting fractions with the same denominator Length & perimeter 	<p>We are finding fractions and telling the time.</p> <ul style="list-style-type: none"> Solving problems with fractions Linking fractions to division Telling the time to the nearest minute Solving time problems 	<p>We are finding the properties of shape and measuring.</p> <ul style="list-style-type: none"> Mental methods Calculation methods Mass and capacity Properties of shape
Year 4	 <p>Using place value counters: 1000 100 10 1 2341</p>	 <p>2341</p>	 <p>length $A = L \times W$ area width</p>	 <p>Did you know we're related? 0.5 1 2 9:25</p>	 <p>9:25 10:15 10:40</p>	 <p>Sam Ravi Elliott 92</p>
	<p>We are fluent with numbers up to 10,000.</p> <ul style="list-style-type: none"> Ordering, comparing and place value Rounding Adding and subtracting 	<p>We are multiplying and dividing.</p> <ul style="list-style-type: none"> Multiplying and division Length and perimeter 	<p>We are calculating area and finding fractions.</p> <ul style="list-style-type: none"> Multiplication and division Area Fractions 	<p>We are using fractions and decimals.</p> <ul style="list-style-type: none"> Fractions of a quantity Subtracting fractions Calculating quantities Tenths and hundredths Dividing by 10 or 100 	<p>We are calculation with money and telling the time.</p> <ul style="list-style-type: none"> Ordering amounts of money Calculating with money Converting analogue clock times to digital 	<p>We are using statistics and finding properties of shape.</p> <ul style="list-style-type: none"> Comparing charts Line graphs Angles Lines of symmetry Movement on a grid

Curriculum Overview: Mathematics

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5	 $ \begin{array}{r} 237 \\ \times 4 \\ \hline 948 \end{array} $					
	<p>We are fluent with numbers up to 1,000,000.</p> <ul style="list-style-type: none"> Ordering, comparing and place value Addition and subtraction Statistics 	<p>We are using written methods and finding perimeter, area and volume.</p> <ul style="list-style-type: none"> Multiplication and division Perimeter and area Volume 	<p>We are multiplying and dividing and finding fractions.</p> <ul style="list-style-type: none"> Written methods Problem solving Equivalent fractions Improper fractions & mixed numbers 	<p>We are calculating with fractions and relating decimals and percentages.</p> <ul style="list-style-type: none"> Add and subtract fractions and mixed numbers Decimals to 2 d.p. Decimals as fractions Equivalent F.D.P 	<p>We are exploring decimals.</p> <ul style="list-style-type: none"> Adding within 1 Crossing the whole Adding and subtracting Decimal sequences Multiplying and dividing by 10, 100 and 1000 	<p>We are discovering properties of shape & exploring measure.</p> <ul style="list-style-type: none"> Measuring and drawing angles Calculating angles Polygons & 3D shape Reflection & translation Converting units
Year 6						
	<p>We are becoming fluent in numbers up to 10,000,000.</p> <ul style="list-style-type: none"> Ordering, comparing and place value Negative numbers Adding and subtraction Multiplication and division Problem solving 	<p>We are mastering fractions and decimals.</p> <ul style="list-style-type: none"> Problem solving Fractions Decimals Compare Multiplication and division 	<p>We are mastering percentages & ratio.</p> <ul style="list-style-type: none"> Mixed problem solving Finding percentages Solving problems with ratios Statistics Position & direction: coordinates 	<p>We are learning about measure, shape and algebra.</p> <ul style="list-style-type: none"> Problem solving – algebra Angles Area, perimeter, volume Converting units Shape 	<p>We are solving problems, applying data and revision.</p> <ul style="list-style-type: none"> Problem solving – multi step Revising 	<p>We are investigating, preparing for secondary school.</p> <ul style="list-style-type: none"> MEI transition unit: calculators Investigations Consolidating our Year 6 work