



Maths Long-term Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	<u>Number</u> -Place Value -Addition and Subtraction	<u>Number</u> -Multiplication and division A	<u>Number</u> -Multiplication and division B <u>Measurement</u> -Length and Perimeter	<u>Number</u> -Fractions A <u>Measurement</u> -Mass and Capacity	<u>Number</u> -Fractions B <u>Measurement</u> -Money	<u>Measurement</u> -Time <u>Geometry</u> -Shape <u>Statistics</u>
Year 4	<u>Number</u> -Place Value -Addition and Subtraction	<u>Measurement</u> -Area <u>Number</u> -Multiplication and division A	<u>Number</u> -Multiplication and division B <u>Measurement</u> -Length and perimeter	<u>Number</u> -Fraction -Decimals A	<u>Number</u> -Decimals B <u>Measurement</u> -Money -Time	<u>Geometry</u> -Shape <u>Statistics</u> <u>Geometry</u> -Position and direction
Year 5	<u>Number</u> -Place Value -Addition and Subtraction	<u>Number</u> -Multiplication and division A -Fractions A	<u>Number</u> -Multiplication and division B -Fractions B	<u>Number</u> -Decimals and percentages <u>Measurement</u> -Perimeter and area <u>Statistics</u>	<u>Geometry</u> -Shape -Position and direction <u>Number</u> -Decimals	<u>Number</u> -Negative numbers <u>Measurement</u> -Converting units -Volume
Year 6	<u>Number</u> -Place Value -Addition and Subtraction	<u>Number</u> -Fractions A -Fractions B <u>Measurement</u> -Converting units	<u>Number</u> -Ratio -Algebra -Decimals	<u>Number</u> -Fractions, decimals and percentages <u>Measurement</u> -Area, perimeter and volume <u>Statistics</u>	<u>Geometry</u> -Shape -Position and direction	<u>Themed projects, consolidation and problem solving</u>



Maths Long-term Overview

	Autumn 1	Autumn 2
Year 3	<p><u>Number</u></p> <p>Place Value</p> <ul style="list-style-type: none">● Represent numbers to 100● Partition numbers to 100● Number line to 100● Hundreds● Represent numbers to 1000● Partition numbers to 1000● Flexible partitioning of numbers to 1000● Hundreds, tens, one● Find 1, 10 or 100 more or less● Number line to 1000● Compare numbers to 1000● Order numbers to 1000● Count in 50s <p>Addition and Subtraction</p> <ul style="list-style-type: none">● Apply number bonds with 10● Add and subtract 1s/10s/100s● Spot the patterns● Add 1s across 10● Add 10s across 100● Subtract 1s across 10● Subtract 10s across 100● Add and subtract two numbers across 10 and 100● Add 2-digit and 3-digit numbers● Subtract a 2-digit number from a 3-digit number● Complements to 100● Estimate answers	<p><u>Number</u></p> <p>Multiplication and division A</p> <ul style="list-style-type: none">● Multiplication - equal groups● Use arrays● Multiples of 2● Multiples of 5 and 10● Sharing and grouping● Multiply by 3● Divide by 3● The three times table● Multiply by 4● Divide by 4● The 4 times table● Multiply by 8● Divide by 8● The 8 times table● The 2, 4 and 8 times table



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	<ul style="list-style-type: none">● Inverse operations	
Year 4	<p><u>Number</u></p> <p>Place Value</p> <ul style="list-style-type: none">● Represent numbers to 1,000● Partition numbers to 1,000● Number line to 1,000● Thousands● Represent numbers to 10,000● Partition numbers to 10,000● Flexibly partition numbers to 10,000● Find 1, 10, 100 and 1000 more or less● Number line to 10,000● Estimate on a number line to 10,000● Compare numbers to 10,000● Order numbers to 10,000● Roman numerals● Round to the nearest 10● Round to the nearest 100● Round to the nearest 1000● Round to the nearest 10, 100 or 1000 <p>Addition and Subtraction</p> <ul style="list-style-type: none">● Add and subtract 1s, 10s, 100s and 1000s● Add two 4-digit numbers - no exchanges● Add two 4-digit numbers - one exchange● Add two 4-digit numbers - more than one exchange● Subtract two 4-digit numbers - no exchange● Subtract two 4-digit numbers - one exchange● Subtract two 4-digit numbers - more than one exchange	<p><u>Measure</u></p> <p>Area</p> <ul style="list-style-type: none">● What is area?● Count squares● Make shapes● Compare area <p><u>Number</u></p> <p>Multiplication and Division A</p> <ul style="list-style-type: none">● Multiples of 3● Multiply and divide by 6● 6 times table and division facts● Multiply and divide by 9● 9 times table and division facts● The 3, 6 and 9 times table● Multiply and divide by 7● 7 times table and division facts● 11 times table and division facts● 12 times table and division facts● Multiply by 1 and 0● Divide a number by 1 and itself● Multiply 3 numbers



	<ul style="list-style-type: none"> ● Efficient subtraction ● Estimate answers ● Checking strategies 	
<p>Year 5</p>	<p><u>Number</u> Place Value</p> <ul style="list-style-type: none"> ● Roman numerals to 1000 ● Numbers to 10,000 ● Numbers to 100,00 ● Numbers to 1,00,000 ● Read and write numbers to 1,000,000 ● Powers of 10 ● 10/100/1,000/10,000/100,000 more or less ● Partition numbers to 1,000,000 ● Number line to 1,000,000 ● Compare and order numbers to 1,000,000 ● Round to the nearest 10, 100 or 1000 ● Round to the nearest 10,000 ● Round within 1,000,000 <p><u>Number</u> Addition and Subtraction</p> <ul style="list-style-type: none"> ● Mental strategies ● Add whole numbers with more than four digits ● Subtract whole numbers with more than four digits ● Round to check answers ● Inverse operations (addition and subtraction) ● Multi-step addition and subtraction problems ● Compare calculations ● Find missing numbers 	<p><u>Numbers</u> Multiplication and division A</p> <ul style="list-style-type: none"> ● Multiples ● Common multiples ● Factors ● Common factors ● Prime numbers ● Square numbers ● Cube numbers ● Multiply by 10, 100 and 1,000 ● Divide by 10, 100 and 1,000 ● Multiples of 10, 100 and 1,000 <p><u>Number</u> Fractions A</p> <ul style="list-style-type: none"> ● Find fractions equivalent to a unit fraction ● Find fractions equivalent to a non-unit fraction ● Recognise equivalent fractions ● Convert improper fractions to mixed numbers ● Convert mixed numbers to improper fractions ● Compare fractions less than 1 ● Order fractions less than 1 ● Compare and order fractions greater than 1 ● Add and subtract fractions with the same denominator ● Add fractions within 1 ● Add fractions with total greater than 1 ● Add to a mixed number



		<ul style="list-style-type: none"> ● Add two mixed numbers ● Subtract fractions ● Subtract from a mixed number ● Subtract from a mixed number - breaking the whole ● Subtract two mixed numbers
<p>Year 6</p>	<p><u>Number</u> Place Value</p> <ul style="list-style-type: none"> ● Numbers to 1,000,000 ● Numbers to 10,000,000 ● Read and write numbers to 10,000,000 ● Powers of 10 ● Number line to 10,000,000 ● Compare and order any integers ● Round any integer ● Negative numbers <p><u>Number</u> Addition, subtraction, multiplication and division</p> <ul style="list-style-type: none"> ● Add and subtract integers ● Common factors ● Common multiples ● Rules of divisibility ● Primes to 100 ● Square and cube numbers ● Multiply up to a 4-digit number by a 2-digit number ● Solve problems with multiplication ● Short division ● Division using factors ● Introduction to long division ● Long division with remainders ● Solve problems with division 	<p><u>Number</u> Fractions A</p> <ul style="list-style-type: none"> ● Equivalent fractions and simplifying ● Equivalent fractions on a number line ● Compare and order (denominator) ● Compare and order (numerator) ● Add and subtract simple fractions ● Add and subtract any two fractions ● Add mixed numbers ● Subtract mixed numbers ● Multi-step problems <p>Fractions B</p> <ul style="list-style-type: none"> ● Multi-step problems ● Multiply fractions by fractions ● Divide a fraction by an integer ● Divide any fraction by an integer ● Mixed questions with fractions ● Fraction of an amount ● Fraction of an amount - find the whole <p><u>Measurement</u> Converting Units</p> <ul style="list-style-type: none"> ● Metric measures ● Convert metric measures ● Calculate with metric measures ● Miles and kilometres

Maths Long-term Overview



	<ul style="list-style-type: none"> • Solve multi-step problems • Order of operations • Mental calculations and estimation • Reason from known facts 	<ul style="list-style-type: none"> • Imperial measures
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	Spring 1	Spring 2
Year 3	<p><u>Number</u> Multiplication and division B</p> <ul style="list-style-type: none"> • Multiples of 10 • Related calculations • Reasoning about multiplication • Multiply a 2-digit number by a 1-digit number - no exchange • Multiply a 2-digit number by a 1-digit number - one exchange • Link multiplication and division • Divide a 2-digit number by a 1-digit number - no exchange 	<p><u>Number</u> Fractions A</p> <ul style="list-style-type: none"> • Understand the denominators of unit fractions • Compare and order unit fractions • Understand the numerators of non-unit fractions • Understand the whole • Compare and order non-unit fractions • Fractions and scales • Fractions on a number line • Count in fractions on a number line • Equivalent fractions on a number line • Equivalent fractions as bar models



Maths Long-term Overview

	<ul style="list-style-type: none"> ● Divide a 2-digit number by a 1-digit number - flexible partitioning ● Divide a 2-digit number by a 1-digit number - with remainders ● Scaling ● How many ways? <p><u>Measurement</u> Length and Perimeter</p> <ul style="list-style-type: none"> ● Measure in metres and centimetres ● Measure in millimetres ● Measure in centimetres and millimetres ● Metres, centimetres and millimetres ● Equivalent lengths (metres and centimetres) ● Equivalent lengths (centimetres and millimetres) ● Compare lengths ● Add lengths ● Subtract lengths ● What is perimeter? ● Measure perimeter ● Calculate perimeter 	<p><u>Measurement</u> Mass and Capacity</p> <ul style="list-style-type: none"> ● Use scales ● Measure mass in grams ● Measure mass in kilograms and grams ● Equivalent masses (kilograms and grams) ● Compare mass ● Add and subtract mass ● Measure capacity and volume in millilitres ● Measure capacity and volume in litres and millilitres ● Equivalent capacities and volumes (litres and millilitres) ● Compare capacity and volume ● Add and subtract capacity and volume
Year 4	<p><u>Number</u> Multiplication and division B</p> <ul style="list-style-type: none"> ● Factor pairs ● Use factor pairs ● Multiply by 10 ● Multiply by 100 ● Divide by 10 ● Divide by 100 ● Related facts - multiplication and division 	<p><u>Number</u> Fractions</p> <ul style="list-style-type: none"> ● Understand the whole ● Count beyond 1 ● Partition a mixed number ● Number lines with mixed numbers ● Compare and order mixed numbers ● Understand improper fractions ● Convert mixed numbers to improper fractions



	<ul style="list-style-type: none"> ● Informal written methods for multiplication ● Multiply a 2-digit number by a 1-digit number ● Multiply a 3-digit number by a 1-digit number ● Divide a 2-digit number by a 1-digit number (1) ● Divide a 2-digit number by a 1-digit number (2) ● Divide a 3-digit number by a 1-digit number ● Correspondence problems ● Efficient multiplication <p><u>Measure</u></p> <p>Length and Perimeter</p> <ul style="list-style-type: none"> ● Measure in kilometres and metres ● Equivalent lengths (kilometres and metres) ● Perimeter on a grid ● Perimeter of a rectangle ● Perimeter of rectilinear shapes ● Find missing lengths in rectilinear shapes ● Calculate perimeter of rectilinear shapes ● Perimeter of regular polygons ● Perimeter of polygons 	<ul style="list-style-type: none"> ● Equivalent fractions on a number line ● Equivalent fraction families ● Add two or more fractions ● Add fractions and mixed numbers ● Subtract two fractions ● Subtract from whole amounts ● Subtract from mixed numbers <p><u>Number</u></p> <p>Decimals A</p> <ul style="list-style-type: none"> ● Tenths as a fraction ● Tenths as decimals ● Tenths on a place value chart ● Tenths on a number line ● Divide a 1-digit number by 10 ● Divide a 2-digit number by 10 ● Hundredths as a fraction ● Hundredths as a decimal ● Hundredths on a place value chart ● Divide a 1-and 2-digit number by 100
<p>Year 5</p>	<p><u>Number</u></p> <p>Multiplication and division B</p> <ul style="list-style-type: none"> ● Multiply up to a 4-digit number by a 1-digit number ● Multiply a 2-digit number by a 2-digit number (area model) ● Multiply a 2-digit number by a 2-digit number ● Multiply a 3-digit number by a 2-digit number ● Multiply a 4-digit number by a 2-digit number ● Solve problems with multiplication ● Short division ● Divide a 4-digit number by a 1-digit number 	<p><u>Number</u></p> <p>Decimals and Percentages</p> <ul style="list-style-type: none"> ● Decimals up to 2 decimal places ● Equivalent fractions and decimals (tenths) ● Equivalent fractions and decimals (hundredths) ● Equivalent fractions and decimals ● Thousandths as fractions ● Thousandths as decimals ● Thousandths on a place value chart ● Order and compare decimals (same number of decimal places)



	<ul style="list-style-type: none"> ● Divide with remainders ● Efficient division ● Solve problems with multiplication and division <p><u>Number</u></p> <p>Fractions B</p> <ul style="list-style-type: none"> ● Multiply a unit fraction by an integer ● Multiply a non-unit fraction by an integer ● Multiply a mixed number by an integer ● Calculate a fraction of a quantity ● Fraction of an amount ● Find the whole ● Use fractions as operators 	<ul style="list-style-type: none"> ● Order and compare any decimals with up to 3 decimal places ● Round to the nearest whole number ● Round to 1 decimal place ● Understand percentages ● Percentages as fractions ● Percentages as decimals ● Equivalent fractions, decimals and percentages <p><u>Measurement</u></p> <p>Perimeter and Area</p> <ul style="list-style-type: none"> ● Perimeter of rectangles ● Perimeter of rectilinear shapes ● Perimeter of polygons ● Area of rectangles ● Area of compound shapes ● Estimate area <p><u>Statistics</u></p> <ul style="list-style-type: none"> ● Draw line graphs ● Read and interpret line graphs ● Read and interpret tables ● Two-way tables ● Read and interpret timetables
Year 6	<p><u>Number</u></p> <p>Ratio</p> <ul style="list-style-type: none"> ● Add or multiply? ● Use ratio language ● Introduction to the ratio symbol ● Ratio and fractions ● Scale drawing ● Use scale factors 	<p><u>Number</u></p> <p>Fractions, decimals and percentages</p> <ul style="list-style-type: none"> ● Decimal and fraction equivalents ● Fractions as division ● Understand percentages ● Fractions to percentages ● Equivalent fractions, decimals and percentages ● Order fractions, decimals and percentages



Maths Long-term Overview

	<ul style="list-style-type: none">● Similar shapes● Ratio problems● Proportion problems● Recipes <p>Algebra</p> <ul style="list-style-type: none">● 1-step function machines● 2-step function machines● Form expressions● Substitution● Formulae● Form equations● Solve 1-step equations● Solve 2-step equations● Find pairs of values● Solve problems with two unknowns <p>Decimals</p> <ul style="list-style-type: none">● Place value within 1● Place value – integers and decimals● Round decimals● Add and subtract decimals● Multiply by 10, 100 and 1,000● Divide by 10, 100 and 1,000● Multiply decimals by integers● Divide decimals by integers● Multiply and divide decimals in context	<ul style="list-style-type: none">● Percentage of an amount – one step● Percentage of an amount – multi-step● Percentages – missing values <p><u>Measurement</u></p> <p>Area, perimeter and volume</p> <ul style="list-style-type: none">● Shapes - same area● Area and perimeter● Area of a triangle – counting squares● Area of a right-angled triangle● Area of any triangle● Area of a parallelogram● Volume - counting cubes● Volume of a cuboid <p><u>Statistics</u></p> <ul style="list-style-type: none">● Line graphs● Dual bar charts● Read and interpret pie charts● Pie charts with percentages● Draw pie charts● The mean
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	Summer 1	Summer 2
Year 3	<p><u>Number</u></p> <p>Fractions B</p> <ul style="list-style-type: none"> ● Add fractions ● Subtract fractions ● Partition a whole ● Unit fractions of a set of objects ● Non-unit fractions of a set of objects ● Reasoning with fractions of an amount <p><u>Measurement</u></p> <p>Money</p> <ul style="list-style-type: none"> ● Pounds and pence ● Convert pounds and pence ● Add money ● Subtract money ● Find change 	<p><u>Measurement</u></p> <p>Time</p> <ul style="list-style-type: none"> ● Roman numerals to 12 ● Tell time to 5 minutes ● Tell time to the minute ● Read time on a digital clock ● Use a.m.and p.m. ● Years, months and days ● Days and hours ● Hours and minutes - use start and end times ● Hours and minutes - use durations ● Minutes and seconds ● Units of time ● Solve problems with time <p><u>Geometry</u></p> <p>Shape</p> <ul style="list-style-type: none"> ● Turns and angles ● Right angles ● Compare angles ● Measure and draw accurately ● Horizontal and vertical ● Parallel and perpendicular



		<ul style="list-style-type: none"> ● Recognise and describe 2D shapes ● Draw polygons ● Recognise and describe 3D shapes ● Make 3D shapes <p><u>Statistics</u></p> <ul style="list-style-type: none"> ● Interpret pictograms ● Draw pictograms ● Interpret bar charts ● Draw bar charts ● Collect and represent data ● Two-way tables
<p>Year 4</p>	<p><u>Number</u></p> <p>Decimals B</p> <ul style="list-style-type: none"> ● Make a whole with tenths ● Make a whole with hundredths ● Partition decimals ● Flexibly partition decimals ● Compare decimals ● Order decimals ● Round to the nearest whole number ● Halves and quarters as decimals <p><u>Measurement</u></p> <p>Money</p> <ul style="list-style-type: none"> ● Write money using decimals ● Convert between pounds and pence ● Compare amounts of money ● Estimate with money ● Calculate with money ● Solve problems with money <p><u>Measurement</u></p>	<p><u>Geometry</u></p> <p>Shape</p> <ul style="list-style-type: none"> ● Understand angles as a turn ● Identify angles ● Compare and order angles ● Triangles ● Quadrilaterals ● Polygons ● Lines of symmetry ● Complete a symmetrical figure <p><u>Statistics</u></p> <ul style="list-style-type: none"> ● Interpret charts ● Comparison, sum and difference ● Interpret line graphs ● Draw line graphs <p><u>Geometry</u></p> <p>Position and Direction</p> <ul style="list-style-type: none"> ● Describe a position using coordinates ● Plot coordinates



Maths Long-term Overview

	<p>Time</p> <ul style="list-style-type: none"> • Years, weeks, months and days • Hours, minutes and seconds • Convert between analogue and digital times • Convert to the 24-hour clock • Convert from the 24-hour clock 	<ul style="list-style-type: none"> • Draw 2D shapes on a grid • Translate on a grid • Describe translation on a grid
Year 5	<p><u>Geometry</u></p> <p>Shape</p> <ul style="list-style-type: none"> • Understand and use degrees • Classify angles • Estimate angles • Measure angles up to 180° • Draw lines and angles accurately • Calculate angles around a point • Calculate angles on a straight line • Lengths and angles in shapes • Regular and irregular polygons • 3-D shapes <p><u>Geometry</u></p> <p>Position and Direction</p> <ul style="list-style-type: none"> • Read and plot coordinates • Problem solving with coordinates • Translation • Translation with coordinates • Lines of symmetry • Reflection in horizontal and vertical lines <p><u>Number</u></p> <p>Decimals</p> <ul style="list-style-type: none"> • Use known facts to add and subtract decimals within 1 	<p><u>Number</u></p> <p>Negative Numbers</p> <ul style="list-style-type: none"> • Understand negative numbers • Count through zero in 1s • Count through zero in multiples • Compare and order negative numbers • Find the difference <p><u>Measurement</u></p> <p>Converting Units</p> <ul style="list-style-type: none"> • Kilograms and kilometres • Millimetres and millilitres • Convert units of length • Convert between metric and imperial units • Convert units of time • Calculate with timetables <p><u>Measurement</u></p> <p>Volume</p> <ul style="list-style-type: none"> • Cubic centimetres • Compare volume • Estimate volume • Estimate capacity



Maths Long-term Overview

	<ul style="list-style-type: none">● Complements to 1● Add and subtract decimals across 1● Add decimals with the same number of decimal places● Subtract decimals with the same number of decimal places● Add decimals with different numbers of decimal places● Subtract decimals with different numbers of decimal places● Efficient strategies for adding and subtracting decimals● Decimal sequences● Multiply by 10, 100 and 1,000● Divide by 10, 100 and 1,000● Multiply and divide decimals - missing values	
Year 6	<p><u>Geometry</u></p> <p>Shape</p> <ul style="list-style-type: none">● Measure and classify angles● Calculate angles● Vertically opposite angles● Angles in a triangle● Angles in a triangle – special cases● Angles in a triangle – missing angles● Angles in quadrilaterals● Angles in polygons● Circles● Draw shapes accurately● Nets of 3-D shapes <p>Position and Direction</p>	



Maths Long-term Overview

	<ul style="list-style-type: none">• The first quadrant• Read and plot points in four quadrants• Solve problems with coordinates• Translations• Reflections	
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