



Whole School Curriculum Overview: Maths Progression Map

Year Group	Autumn Term	Spring Term	Summer term
EYFS			
Year 1	<p>Place Value:</p> <ul style="list-style-type: none"> Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Count numbers to 100 in numerals; count in multiples of 2's, 5's and 10's. Identify and represent numbers using objects and pictorial representations Read and write numbers to 100 in numerals Read and write numbers from 1 to 20 in numerals and words Given a number, identify 1 more and 1 less <p>Addition and Subtraction:</p> <ul style="list-style-type: none"> Read, write and interpret mathematical statements involving addition, subtraction and equals sign Represent and use number bonds and related subtraction facts within 20 Add and subtract one-digit and two-digit numbers to 20 including zero Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems <p>Geometry:</p> <ul style="list-style-type: none"> Recognise and name common 2-d shapes Recognise and names common 3-d shapes Describe position, direction and movement, including whole, half, quarter and three-quarter turns 	<p>Place Value:</p> <ul style="list-style-type: none"> Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Count numbers to 100 in numerals; count in multiples of 2's, 5's and 10's. Identify and represent numbers using objects and pictorial representations Read and write numbers to 100 in numerals Read and write numbers from 1 to 20 in numerals and words Given a number, identify 1 more and 1 less <p>Addition and Subtraction:</p> <ul style="list-style-type: none"> Read, write and interpret mathematical statements involving addition, subtraction and equals sign Represent and use number bonds and related subtraction facts within 20 Add and subtract one-digit and two-digit numbers to 20 including zero Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems <p>Measurement:</p> <ul style="list-style-type: none"> Compare, describe and solve practical problems for: <ul style="list-style-type: none"> Lengths and heights Mass/weights Capacity and volume Time Measure and begin to record the following: <ul style="list-style-type: none"> Lengths and heights Mass/weights Capacity and volume Time 	<p>Place Value:</p> <ul style="list-style-type: none"> Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Count numbers to 100 in numerals; count in multiples of 2's, 5's and 10's. Identify and represent numbers using objects and pictorial representations Read and write numbers to 100 in numerals Read and write numbers from 1 to 20 in numerals and words Given a number, identify 1 more and 1 less <p>Multiplication and Division:</p> <ul style="list-style-type: none"> Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with support of the teacher <p>Fractions:</p> <ul style="list-style-type: none"> Recognise, find and name a half as one of two equal parts of an object, shape or quantity. Recognise, find and name a quarter as one of four equal parts or an object, shape or quantity <p>Measurement:</p> <ul style="list-style-type: none"> Compare, describe and solve practical problems for: <ul style="list-style-type: none"> Lengths and heights Mass/weights Capacity and volume Time Measure and begin to record the following: <ul style="list-style-type: none"> Lengths and heights Mass/weights Capacity and volume Time



Whole School Curriculum Overview: Maths Progression Map

		- Time	<ul style="list-style-type: none"> Recognise and know the value of different denominations of coins and notes Sequence events in chronological order using language Recognise and use language relating to dates, including days of the week, weeks, months and years Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times <p>Geometry:</p> <ul style="list-style-type: none"> Describe position, direction and movement, including whole, half, quarter and three-quarter turns
Year 2	<p>Place Value:</p> <ul style="list-style-type: none"> Count in steps of 2,3 and 5 from 0, and in tens from any number, forward and backward Read and write numbers to at least 100 in numerals and in words Identify, represent and estimate using different representations, including the number line Recognise the place value of each number in a two-digit number Compare and order numbers from 0 up to 100; use <, > and = signs Use place value and number facts to solve problems Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems Add and subtract numbers using concrete objects, pictorial representations and mentally, including: <ul style="list-style-type: none"> A two-digit number and ones A two-digit number and tens Two two-digit numbers 	<p>Multiplication and division:</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers Show that multiplication of two numbers can be done in any order and division of one number by another cannot Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication, division and equals signs <p>Fractions:</p> <ul style="list-style-type: none"> Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ Write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 <p>Measurement:</p> <ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure length/height in any direction; mass; temperature; capacity to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using <, > and = 	<p>Measurement:</p> <ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure length/height in any direction; mass; temperature; capacity to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using <, > and = <p>Geometry:</p> <ul style="list-style-type: none"> Order and arrange combinations of mathematical objects and patterns in sequences Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)



Whole School Curriculum Overview: Maths Progression Map

	<ul style="list-style-type: none"> - Adding three one-digit numbers • Solve problems with addition and subtraction: - Using concrete objects and pictorial representations, including those involving numbers, quantities and measures - Applying their knowledge of mental and written methods <p>Multiplication and division:</p> <ul style="list-style-type: none"> • Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers • Show that multiplication of two numbers can be done in any order and division of one number by another cannot • Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication, division and equals signs <p>Measures:</p> <ul style="list-style-type: none"> • Recognise and use symbols for pounds and pence; combine amounts to make a particular value • Find different combinations of coins that make the same amount of money • Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change 	<p>Geometry:</p> <ul style="list-style-type: none"> • Identify and describe the properties of 2-d shapes, including the number of sides and line symmetry in a vertical line • Identify 2-d shapes on the surface of 3-d shapes • Compare and sort common 2-d shapes and everyday objects • Recognise and name common 3-d shapes • Compare and sort common 3-d shapes and everyday objects • Order and arrange combinations of mathematical objects and patterns in sequences • Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn in terms of right angles for quarter, half and three quarter turns (clockwise and anti-clockwise) <p>Statistics:</p> <ul style="list-style-type: none"> • Interpret and construct simple pictograms, tally charts, block diagrams and simple tables • Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity • Ask and answer questions about totalling and comparing categorical data 	
<p>Year 3</p>	<p>Place Value:</p> <ul style="list-style-type: none"> • Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less from a given number • Identify, represent and estimate numbers using different representations • Read and write numbers up to 1000 in numerals and words • Recognise the place value of each digit in a 3-digit number • Compare and order numbers to 1000 • Solve number problems and practical problems involving these ideas • Estimate the answer to a calculation and use inverse operations to check 	<p>Multiplication and division:</p> <ul style="list-style-type: none"> • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods • Solve problems including missing number problems involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects <p>Fractions:</p> <ul style="list-style-type: none"> • Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal 	<p>Fractions:</p> <ul style="list-style-type: none"> • Recognise and show using diagrams, equivalent fractions with small denominators • Compare and order unit fractions with small denominators • Compare and order unit fractions, and fractions with the same denominator • Add and subtract fractions with the same denominator within one whole • Solve problems that involve all of the above <p>Measurement:</p> <ul style="list-style-type: none"> • Measure, compare, add and subtract lengths (m/cm/mm); mass (kg/g); volume/capacity (L/ml)



Whole School Curriculum Overview: Maths Progression Map

	<p>Addition and subtraction:</p> <ul style="list-style-type: none"> • Add and subtract numbers mentally, including: <ul style="list-style-type: none"> - A three-digit number and ones - A three-digit number and tens - A three-digit number and hundreds • Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Solve problems including missing number problems using number facts, place value and more complex addition and subtraction <p>Multiplication and division:</p> <ul style="list-style-type: none"> • Recall and use multiplication division facts for the 3,4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods 	<p>parts and in dividing one-digit numbers or quantities by 10.</p> <ul style="list-style-type: none"> • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • Recognise and use fractions and numbers: unit fractions and non-unit fractions with small denominators • Solve problems that involve all of the above <p>Measurement:</p> <ul style="list-style-type: none"> • Measure, compare, add and subtract lengths (m/cm/mm); mass (kg/g); volume/capacity (L/ml) • Add and subtract amounts of money to give change, using both £ and p in practical contexts • Measure the perimeter of 2-D shapes <p>Statistics:</p> <ul style="list-style-type: none"> • Interpret and present data using bar charts, pictograms and tables • Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables 	<ul style="list-style-type: none"> • Tell and write the time from an analogue clock, including using roman numerals from I to XII, and 12-hour and 24-hour clocks • Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minute and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight • Know the number of seconds in a minute and the number of days in each month, year and leap year. • Compare durations of events <p>Geometry:</p> <ul style="list-style-type: none"> • Draw 2-D shapes • Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them • Recognise angles as property of shape or description of a turn • Identify right angles, recognise that 2 right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater or less than a right angle • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines
<p>Year 4</p>	<p>Place Value:</p> <ul style="list-style-type: none"> • Count in multiples of 6,7,9,25 and 1000 • Count backwards through zero to include negative numbers • Identify, represent and estimate numbers using different representations • Read Roman numeral to 100 and know that over time the system changed to include the concept of zero and place value • Find 100 more or less than a given number • Recognise the place value of each digit in a four-digit number • Order and compare numbers beyond 1000 • Round any number to the nearest 10, 100 or 1000 	<p>Multiplication and division:</p> <ul style="list-style-type: none"> • Recall multiplication and division facts for multiplication tables up to 12 x 12 • Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers • Recognise and use factor pairs and commutativity in mental calculations • Multiply two-digit and three-digit numbers by one-digit number using formal written layout • Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one-digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects 	<p>Decimals:</p> <ul style="list-style-type: none"> • Recognise and write decimal equivalents of any number of tenths or hundredths • Recognise and decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ • round decimals with one decimal place to the nearest whole number • compare numbers with the same number of decimal places up to two decimal places • solve simple measure and money problems involving fractions and decimals to two decimal places <p>Measurement:</p> <ul style="list-style-type: none"> • Convert between different units of measure • Estimate, compare and calculate different measures



Whole School Curriculum Overview: Maths Progression Map

	<ul style="list-style-type: none"> Solve number and practical problems that involve all of the above with increasingly large positive numbers <p>Addition and subtraction:</p> <ul style="list-style-type: none"> Estimate and use inverse operations to check answers to a calculation Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why <p>Multiplication and division:</p> <ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12 x 12 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers Recognise and use factor pairs and commutativity in mental calculations <p>Measurement:</p> <ul style="list-style-type: none"> Convert between different units of measure Estimate, compare and calculate different measures Measure and calculate the perimeter of a rectilinear figure in centimetres and metres Find the area of rectilinear shapes by counting squares 	<p>Fractions:</p> <ul style="list-style-type: none"> Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten Recognise and show, using diagrams, families of common equivalent fractions Add and subtract fractions with the same denominator Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number solve simple measure and money problems involving fractions and decimals to two decimal places <p>Decimals:</p> <ul style="list-style-type: none"> Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ find the effect of dividing a one or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths solve simple measure and money problems involving fractions and decimals to two decimal places <p>Measurement:</p> <ul style="list-style-type: none"> Convert between different units of measure Estimate, compare and calculate different measures Measure and calculate the perimeter of a rectilinear figure in centimetres and metres Find the area of rectilinear shapes by counting squares 	<ul style="list-style-type: none"> Estimate, compare and calculate different measures, including money in pounds and pence Read, write and convert time between analogue and digital 12- and 24- hours clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days <p>Geometry:</p> <ul style="list-style-type: none"> Compare and classify geometric shapes including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2-D shapes presented in different orientations Identify acute and obtuse angles and order angles up to two right angles by size Complete a simple symmetric figure with respect to a specific line of symmetry Describe positions on a 2-D grid as coordinates in the first quadrant Describe movements between positions as translations of a given unit to the left/right and up/down Plot specified points and draw sides to complete a given polygon <p>Statistics:</p> <ul style="list-style-type: none"> Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
<p>Year 5</p>	<p>Place Value:</p> <ul style="list-style-type: none"> Count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000 	<p>Multiplication and division:</p> <ul style="list-style-type: none"> Multiply numbers up to 4-digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers 	<p>Multiplication and division:</p> <ul style="list-style-type: none"> Multiply numbers up to 4-digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers



Whole School Curriculum Overview: Maths Progression Map

	<ul style="list-style-type: none"> Count forwards and back wards with positive and negative whole numbers, including through zero Read, write (order and compare) numbers to at least 1,000,000 and determine the value of each digits Read Roman numerals to 100 and recognise years written in Roman numerals Interpret negative numbers in context Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10 000, and 100 000 Solve number problems and practical problems that involve all of the above Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy <p>Addition and subtraction:</p> <ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, using the formal written methods Add and subtract numbers mentally with increasingly large numbers Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign <p>Multiplication and division:</p> <ul style="list-style-type: none"> Identify multiples and factors, including factor pairs of a number, and common factors of two numbers Know and use the vocabulary of prime numbers, prime factors and composite numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19 Recognise and use square numbers and cube numbers, and the notation for squared and cubed. Multiply numbers up to 4-digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers Multiply and divide numbers mentally drawing upon known facts 	<ul style="list-style-type: none"> Multiply and divide numbers mentally drawing upon known facts Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> <ul style="list-style-type: none"> Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign <p>Fractions:</p> <ul style="list-style-type: none"> Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number Compare and order fractions whose denominators are all multiples of the same number Add and subtract fractions with the same denominator and denominators that are multiples of the same numbers Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams <p>Decimals:</p> <ul style="list-style-type: none"> Read and write decimal numbers as fractions Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Round decimal with two decimal places to the nearest whole number and to one decimal place Read, write, order and compare numbers with up to 3 decimal places 	<ul style="list-style-type: none"> Multiply and divide numbers mentally drawing upon known facts Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 <p>Decimals:</p> <ul style="list-style-type: none"> Solve problems involving numbers up to three decimal places <p>Measurement:</p> <ul style="list-style-type: none"> Convert between different units of metric measure Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints Use all four operations to solve problems involving measure Solve problems involving converting between units of time Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the areas of rectangles (including squares), and including using standard units, square centimetres and square metres and estimate the area of irregular shapes Estimate volume and capacity <p>Geometry:</p> <ul style="list-style-type: none"> Distinguish between regular and irregular polygons based on reasoning about equal sides and angles Use the properties of rectangles to deduce related facts and find missing lengths and angles Identify 3-D shapes, including cubes and other cuboids, from 2-D representations Know angles are measured in degrees: estimate and compare acute obtuse and reflex angles Draw given angles and measure them in degrees Identify:
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Whole School Curriculum Overview: Maths Progression Map

	<ul style="list-style-type: none"> Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates <p>Measurement:</p> <ul style="list-style-type: none"> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the areas of rectangles (including squares), and including using standard units, square centimetres and square metres and estimate the area of irregular shapes Estimate volume and capacity <p>Statistics:</p> <ul style="list-style-type: none"> Complete, read and interpret information in tables, including timetables Solve comparison, sum and difference problems using information presented in a line graph 	<p>Fractions, Decimals and Percentages:</p> <ul style="list-style-type: none"> Recognise the percent symbol and understand that percent relates to number of parts per hundred, and write percentages as a fraction with denominator 100, and as a decimal Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 	<ul style="list-style-type: none"> angles at a point and one whole turn angles at a point on a straight line and $\frac{1}{2}$ a turn other multiples of 90 degrees <ul style="list-style-type: none"> Identify, describe and represent the position of a shape following reflection or translation, using the appropriate language and know that the shape has not changed
<p>Year 6</p>	<p>Place Value:</p> <ul style="list-style-type: none"> Read, write, (order and compare) numbers up to 10,000,000 and determine the value of each digit Round any whole number to a required degree of accuracy Use negative numbers in context and calculate intervals across zero Solve number and practical problems that involve all of the above <p>Addition and Subtraction:</p> <ul style="list-style-type: none"> Perform mental calculations, including with mixed operations and large numbers 	<p>Decimals:</p> <ul style="list-style-type: none"> Identify the value of each digit in numbers given to three decimal places Multiply and divide numbers by 10, 100 and 1000 given answers up to three decimal places Multiply one-digit numbers with up to two decimal places by whole numbers Use written division methods in cases where the answer has up to two decimal places Solve problems which require answers to be rounded to specific degrees of accuracy <p>Fractions, Decimals and Percentages:</p> <ul style="list-style-type: none"> Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction 	<p>Geometry:</p> <ul style="list-style-type: none"> Draw 2-D shapes using given dimensions and angles Compare and classify geometric shapes based on their properties and sizes Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Recognise, describe and build simple 3-D shapes, including making nets Find unknown angles in any triangles, quadrilaterals and regular polygons Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles



Whole School Curriculum Overview: Maths Progression Map

	<ul style="list-style-type: none"> Use their knowledge of the order of operations to carry out calculation involving the four operations Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Identify common factors, common multiples and prime numbers Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy <p>Multiplication and Division:</p> <ul style="list-style-type: none"> Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context Perform mental calculations, including with mixed operations and large numbers Solve problems involving addition, subtraction, multiplication and division Use their knowledge of the order of operations to carry out calculations involving the four operations <p>Fractions:</p> <ul style="list-style-type: none"> Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, including fractions > 1 Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form Divide proper fractions by whole numbers 	<ul style="list-style-type: none"> Recall and use equivalences between simple fractions, decimals and percentages including in different contexts <p>Ratio and Proportion:</p> <ul style="list-style-type: none"> Solve problems involving the relative sizes of two quantities where missing values can be found by integer multiplication and division facts Solve problems involving the calculation of percentages and the use of percentages for comparison Solve problems involving similar shapes where the scale factor is known or can be found Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples <p>Algebra:</p> <ul style="list-style-type: none"> Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables <p>Measurement:</p> <ul style="list-style-type: none"> Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit and vice versa, using decimal notation to up to three decimal places Convert between miles and kilometres Use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit and vice versa Recognise that shapes with the same areas can have different perimeters and vice versa Recognise when it is possible to use formulae for area and volume of shapes 	<p>Statistics:</p> <ul style="list-style-type: none"> Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average
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Northbrook Primary Academy

Whole School Curriculum Overview: Maths Progression Map

	<p>Geometry:</p> <ul style="list-style-type: none">• Describe positions on the full coordinate grid (all four quadrants)• Draw and translate simple shapes on the coordinate plane, and reflect them in the axes	<ul style="list-style-type: none">• Calculate the area of parallelograms and triangles• Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres and cubic metres, and extending to other units	
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