


**Year 6 mid and short term - year overview**

Year 6	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
<b>Autumn</b>	<p><b>Number: Place Value</b> ...all children should be able to:</p> <ul style="list-style-type: none"> <li>read and write numbers up to 1 000 000;</li> <li>identify the value of each digit in a number up to 1 000 000;</li> <li>identify the value of a digit in numbers with two decimal places; • order numbers up to 1 000 000;</li> <li>compare numbers using the greater-than and less-than symbols;</li> <li>round numbers to a required degree of accuracy using a number line;</li> <li>calculate intervals across zero using a number line;</li> <li>compare and order negative numbers;</li> <li>solve simple problems involving negative numbers in context;</li> <li>solve simple reasoning problems <b>most children will be able to</b>:</li> </ul> <p>• read and write numbers up to 10 000 000;</p> <p>• identify the value of each digit in a number up to 10 000 000;</p> <p>• identify the value of a digit in numbers with three decimal places;</p> <p>• order numbers up to 10 000 000; • compare numbers by working out calculations;</p> <p>• round numbers to a required degree of accuracy;</p> <p>• calculate intervals across zero;</p> <p>• solve problems involving negative numbers in context;</p> <p>• solve reasoning problems using <b>some children will be able to</b>:</p> <p>• solve calculations to read and write numbers up to 10 000 000;</p> <p>• compare and order numbers, explaining the difference between numbers;</p> <p>• solve trickier reasoning problems involving place value, rounding and negative numbers.</p>	<p><b>Number: Addition, Subtraction, Multiplication and Division</b> ...all children should be able to:</p> <ul style="list-style-type: none"> <li>multiply numbers by a one-digit number using long multiplication;</li> <li>solve reasoning questions using the formal method of long multiplication;</li> <li>divide numbers by a two-digit number using long division;</li> <li>solve one-step division problems, rounding the answer depending on the context;</li> <li>divide four-digit numbers by a two-digit number using short division without remainders;</li> <li>perform one-step mental calculations with increasingly large numbers;</li> <li>solve reasoning questions involving mental addition, subtraction, multiplication and division;</li> <li>add and subtract whole numbers using a formal written method;</li> <li>correctly use the order of operations to carry out calculations;</li> <li>explore the order of operations using brackets;</li> <li>find missing numbers using the inverse;</li> <li>select the correct operation/s to use and solve a problem, checking the answer using estimation;</li> <li>solve one-step problems and check their answer using estimation;</li> <li>round numbers to a specified degree of accuracy;</li> <li>use rounding to check answers to problems;</li> <li>sort one-step problems in a sorting diagram;</li> <li>solve two-step problems involving addition and subtraction.</li> </ul> <p><b>...some children will be able to</b>:</p> <ul style="list-style-type: none"> <li>solve missing digit problems involving long multiplication;</li> <li>divide using a formal written method and use rounding depending on the context in multi-step calculations;</li> <li>solve missing digit problems involving long division;</li> <li>create comparison sentences involving long division calculations;</li> <li>create their own word problems involving addition, subtraction, multiplication and division;</li> <li>solve multi-step problems and check their answer using estimation;</li> <li>sort and solve one, two and multi-step problems in a Venn diagram;</li> <li>solve complex multi-step problems.</li> </ul>	<p><b>Fractions</b> ...all children should be able to:</p> <ul style="list-style-type: none"> <li>compare and order fractions using a fraction wall to support them;</li> <li>add and subtract fractions with unlike denominators using resources to support them;</li> <li>multiply proper fractions or mixed numbers by whole numbers using resources to support;</li> <li>divide a fraction by a whole number that is a divisor of the numerator;</li> <li>understand per cent and give percentage and decimal equivalents for half, quarters, fifths, tenths, twentieths, twenty-fifths, fiftieths and hundredths fractions.</li> </ul> <p><b>...most children will be able to</b>:</p> <ul style="list-style-type: none"> <li>compare and order fractions using the method of finding a common denominator;</li> <li>add and subtract fractions with unlike denominators using the method of finding a common denominator;</li> <li>multiply pairs of proper fractions using resources to support; • divide a fraction by any whole number;</li> <li>use fraction, percentage and decimal equivalents to solve problems. ...</li> </ul> <p><b>some children will be able to</b>:</p> <ul style="list-style-type: none"> <li>compare and order fractions using the method of finding a common numerator;</li> <li>subtract fractions with unlike denominators using regrouping;</li> <li>divide a proper fraction by another proper fraction;</li> <li>use written methods of division to calculate decimal equivalents of fractions</li> </ul>	<p><b>Geometry: Position and Direction</b> <b>all children should be able to</b>:</p> <ul style="list-style-type: none"> <li>describe coordinate positions in the first quadrant;</li> <li>translate shapes on a 2D grid using the vocabulary left, right, up and down;</li> <li>reflect and draw shapes over mirror lines.</li> </ul> <p><b>...some children will be able to</b>:</p> <ul style="list-style-type: none"> <li>describe coordinate positions in all four quadrants, including using decimal half coordinates; • translate shapes on coordinate axes using coordinate translation, and identify missing vertices;</li> <li>reflect and draw shapes on coordinate axes, and identify missing vertices.</li> </ul> <p><b>most children will be able to</b>:</p> <ul style="list-style-type: none"> <li>describe coordinate positions in all four quadrants;</li> <li>translate shapes on coordinate axes using coordinate translation; • reflect and draw shapes on coordinate axes.</li> </ul>	1 week to complete termly assessments							
<b>Year 6</b>	<b>Week 1</b>	<b>Week 2</b>	<b>Week 3</b>	<b>Week 4</b>	<b>Week 5</b>	<b>Week 6</b>	<b>Week 7</b>	<b>Week 8</b>	<b>Week 9</b>	<b>Week 10</b>	<b>Week 11</b>	<b>Week 12</b>
<b>Spring</b>	<p><b>Number: Decimals</b></p> <ul style="list-style-type: none"> <li>round a number with three decimal places to a specified degree of accuracy using a number line to support;</li> <li>round a number with three decimal places to a specified degree of accuracy;</li> </ul>	<p><b>Number: Percentages</b> ...all children should be able to:</p> <ul style="list-style-type: none"> <li>calculate 5%, 10% and multiples of 10% of quantities</li> </ul> <p><b>...most children will be able to</b>:</p> <ul style="list-style-type: none"> <li>calculate any percentage of a numbers including money up to 10 000;</li> <li>convert percentages to numbers in a pie chart.</li> </ul> <p><b>...some children will be able to</b>:</p> <ul style="list-style-type: none"> <li>calculate any percentage of a numbers including money over 1 000 000.</li> </ul>	<p><b>Number: Algebra</b></p> <p>Use a number line to solve problems involving addition and subtraction.</p> <p>Use a number line to solve problems involving multiplication and division.</p> <p>Use a number line to solve problems involving addition and subtraction.</p> <p>Use a number line to solve problems involving multiplication and division.</p>	<p><b>Measurement: Converting Unit</b> <b>Measurement: Perimeter, Area and Volume</b> ...all children should be able to:</p> <ul style="list-style-type: none"> <li>convert from larger to smaller metric units of length, mass and volume, up to two decimal places;</li> <li>convert from smaller to larger metric units of length, mass and volume, up to two decimal places;</li> <li>convert units of time – whole and half units;</li> <li>solve simple problems involving conversion and calculation of metric units of length, mass and volume;</li> <li>calculate the difference between negative and positive temperatures within a range of 15°;</li> <li>convert between miles and kilometres (whole units);</li> <li>use conversion graphs to convert between miles and kilometres (multiple of five units);</li> </ul>	<p><b>Number: Ratio</b> ...all children should be able to:</p> <ul style="list-style-type: none"> <li>enlarge a simple shape by a given whole number scale factor;</li> <li>solve simple fraction problems either with fractions in the problem or using fractions to solve the problem, where the numerators of fractions are 1;</li> <li>write a ratio statement to compare two values;</li> <li>solve simple problems involving calculating ratio;</li> <li>solve simple problems involving calculating proportion;</li> </ul> <p><b>...most children will be able to</b>:</p> <ul style="list-style-type: none"> <li>enlarge a simple shape by a given whole and fractional number scale factor;</li> <li>calculate the length of missing sides after enlargement on simple shapes;</li> <li>enlarge a cuboid to a given scale factor;</li> </ul>	1 week to complete termly assessments						

			<ul style="list-style-type: none"> <li>• find all possible rectangles and squares with a given area by counting squares, using cm<sup>2</sup>;</li> <li>• find all possible rectangles and squares with a given perimeter, using cm;</li> <li>• use a formula to calculate the area of triangles up to 75cm<sup>2</sup>;</li> <li>• use a formula to calculate the area of parallelograms up to 150cm<sup>2</sup>;</li> <li>• identify shapes which have enough information to use a formula to calculate the area of squares, rectangles and composite shapes;</li> <li>• calculate the volume of cubes and cuboids, using measurements of cubic centimetres and cubic metres (whole units);</li> <li>• estimate the volume of cuboids;</li> <li>• identify shapes and nets of shapes which have enough information to use a formula to calculate the volume. ...</li> </ul> <p><b>most children will be able to:</b></p> <ul style="list-style-type: none"> <li>• convert from larger to smaller metric units of length, mass and volume, up to three decimal places;</li> <li>• convert from smaller to larger metric units of length, mass and volume, up to three decimal places;</li> <li>• convert units of time – whole, half, quarter and three-quarter units;</li> <li>• solve reasoning style problems involving conversion and calculation of metric units of length, mass and volume;</li> <li>• calculate the difference between negative and positive temperatures within a range of 40°;</li> <li>• create and use conversion graphs to convert between miles and kilometres (multiples of five units);</li> <li>• find all possible rectangles and squares with a given area using mm<sup>2</sup>;</li> <li>• find all possible rectangles and squares with a given perimeter, using cm and mm;</li> <li>• use a formula to calculate the area of triangles up to 200cm<sup>2</sup>;</li> <li>• use a formula to calculate the area of parallelograms up to 600cm<sup>2</sup>;</li> <li>• subdivide two composite rectilinear shapes to calculate area, some with unknown side measurements;</li> <li>• calculate the volume of a composite shape made up of two cuboids;</li> <li>• find the measurement of an unknown dimension of a cuboid, given the surface area of one face and the volume. ...</li> </ul> <p><b>.some children will be able to:</b></p>	<ul style="list-style-type: none"> <li>• solve fraction problems either with fractions in the problem or using fractions to solve the problem, where there are several steps required to answer the problem;</li> <li>• solve two-step problems involving calculating ratio;</li> <li>• solve two-step problems involving calculating proportion;</li> <li>• write a ratio in its simplest form;</li> <li>• recognise and write equivalent ratios;</li> </ul> <p><b>...some children will be able to:</b></p> <ul style="list-style-type: none"> <li>• calculate the length of missing sides after enlargement on simple and composite shapes;</li> <li>• calculate the surface area of an enlarged cuboid;</li> <li>• solve fraction problems either with fractions in the problem or using fractions to solve the problem, using a higher level of reasoning to answer the problem;</li> <li>• solve multi-step problems involving calculating ratio;</li> <li>• solve multi-step problems involving calculating proportion;</li> <li>• compare sets of data on two pie charts;</li> </ul>	
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<b>Summer</b> <u>Geometry: Properties of Shapes</u> ...all children should be able to: <ul style="list-style-type: none"> <li>• use a ruler to draw a 2D shape to a given measurement;</li> <li>• construct a 3D shape from a given shape net;</li> <li>• compare and classify geometric shapes;</li> <li>• recognise different types of angle;</li> <li>• draw circle using a pair of compasses.</li> </ul> ...some children will be able to: <ul style="list-style-type: none"> <li>• confidently use a protractor to accurately draw 2D shapes to within 1° of the given dimension;</li> <li>• draw their own net of more complex 3D shapes including construction tabs;</li> <li>• use more complex reasoning to work out missing angles in 2D shapes and around a point or on a straight line;</li> <li>• understand the relationship between radius and diameter using algebraic representation.</li> </ul> ...most children will be able to: <ul style="list-style-type: none"> <li>• draw 2D shapes to given dimensions of length and angle;</li> <li>• draw their own net of a simple 3D shape including construction tabs;</li> <li>• measure and calculate unknown angles in 2D shapes and around a point or on a straight line;</li> <li>• label the parts of a circle including radius and diameter.</li> </ul>			<u>Problem Solving</u>			<u>Statistics</u> 		<u>Investigations</u>			1 week to complete termly assessments	

