

The logo for Shobnall Primary School is a circular emblem with a yellow top half and a blue bottom half, separated by a red and orange border. The text 'SHOBNALL PRIMARY SCHOOL' is written in white capital letters across the center.

SHOBNALL  
PRIMARY  
SCHOOL

**SHOBNALL PRIMARY SCHOOL  
MATHEMATICS PROGRAMME OF STUDY  
YEAR 6 LONG TERM OVERVIEW**

The logo for the Mathematics department, featuring the letters 'MAT' in a stylized, green, 3D font.

**MAT**

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

**KEY: NUMBER, GEOMETRY, STATISTICS, RATIO AND PROPORTION, ALGEBRA and MEASUREMENT**

**AUTUMN TERM, SPRING TERM and SUMMER TERM**

Week	Unit	Lesson titles	Domain	National Curriculum Pupils should be taught to:
1	<b>Unit 1- Place value within 10,000,00 0</b>	Lesson 1 – Numbers to 1,000,000	Number- Number and place value	<ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.</li> <li>Solve number and practical problems that involve all of the above.</li> </ul>
		Lesson 2 – Numbers to 10,000,000 (1)	Number- Number and place value	<ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.</li> <li>Solve number and practical problems that involve all of the above.</li> </ul>
		Lesson 3 – Numbers to 10,000,000 (2)	Number- Number and place value	<ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.</li> <li>Solve number and practical problems that involve all of the above.</li> </ul>
		Lesson 4 – Number line to 10,000,000	Number- Number and place value	<ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.</li> <li>Solve number and practical problems that involve all of the above.</li> </ul>
2		Lesson 5 – Comparing and ordering numbers to 10,000,000	Number- Number and place value	<ul style="list-style-type: none"> <li>Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit.</li> <li>Solve number and practical problems that involve all of the above.</li> </ul>
		Lesson 6 – Rounding numbers	Number- Number and place value	<ul style="list-style-type: none"> <li>Round any whole number to a required degree of accuracy.</li> </ul>
		Lesson 7 – Negative numbers	Number- Number and place value	<ul style="list-style-type: none"> <li>Use negative numbers in context, and calculate intervals across zero.</li> </ul>
3	<b>Unit 2 – Four operation (1)</b>	Lesson 1 – Problem solving – using written methods of addition and subtraction (1)	Number – Addition and subtraction	<i>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. (YEAR FIVE)</i>
		Lesson 2 – Problem solving – using written methods of addition and subtraction (2)	Number – Addition and subtraction	<i>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. (YEAR FIVE)</i>
		Lesson 3 – Multiplying numbers up to 4 digit by a 1-digit number	Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.</li> </ul>
		Lesson 4 – Multiplying numbers up to 4 digits by a 2-digit number	Number – Addition, subtraction,	<ul style="list-style-type: none"> <li>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.</li> </ul>

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

**KEY: NUMBER, GEOMETRY, STATISTICS, RATIO AND PROPORTION, ALGEBRA and MEASUREMENT**

**AUTUMN TERM, SPRING TERM and SUMMER TERM**

<b>4</b>			multiplication and division	
		Lesson 5 – Dividing numbers up to 4 digit by a 2-digit number (1)	Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>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.</li> </ul>
		Lesson 6 – Dividing numbers up to 4 digit by a 2-digit number (2)	Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>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.</li> </ul>
		Lesson 7 – Dividing numbers up to 4 digit by a 2-digit number (3)	Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>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.</li> </ul>
		Lesson 8 – Dividing numbers up to 4 digit by a 2-digit number (4)	Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>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.</li> </ul>
		Lesson 9 – Dividing numbers up to 4 digit by a 2-digit number (5)	Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>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.</li> </ul>
<b>5</b>		Lesson 10 – Dividing numbers up to 4 digit by a 2-digit number (6)	Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>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.</li> </ul>
	<b>Unit 3 – Four operations (2)</b>	Lesson 1 – Common factors	Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Identify common factors, common multiples and prime numbers.</li> </ul>
		Lesson 2 – Common multiples	Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Identify common factors, common multiples and prime numbers.</li> </ul>
		Lesson 3 – Recognising prime numbers up to 100	Number – Addition, subtraction,	<ul style="list-style-type: none"> <li>Identify common factors, common multiples and prime numbers.</li> </ul>

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

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**AUTUMN TERM, SPRING TERM and SUMMER TERM**

<b>6</b>			multiplication and division	
	Lesson 4 – Square and cubes		Number – Addition, subtraction, multiplication and division	<i>Recognise and use square numbers and cube numbers, and the notation for squared (<sup>2</sup>) and cubed (<sup>3</sup>). (YEAR FIVE)</i>
	Lesson 5 – Order of operations		Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Use their knowledge of the order of operations to carry out calculations involving the four operations.</li> </ul>
	Lesson 6 – Brackets		Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Use their knowledge of the order of operations to carry out calculations involving the four operations.</li> </ul>
	Lesson 7 – Mental calculations (1)		Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Perform mental calculations, including with mixed operations and large numbers.</li> </ul>
<b>7</b>	Lesson 8 – Mental calculations (2)		Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Perform mental calculations, including with mixed operations and large numbers.</li> </ul>
	Lesson 9 – Reasoning from known facts		Number – Addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Use their knowledge of the order of operations to carry out calculations involving the four operations.</li> <li>Solve problems involving addition, subtraction, multiplication and division.</li> </ul>
	<b>Unit 4 – Fractions (1)</b>	Lesson 1 – Simplifying fractions (1)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> </ul>
	Lesson 2 – Simplifying fractions (2)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> </ul>	

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

**KEY: NUMBER, GEOMETRY, STATISTICS, RATIO AND PROPORTION, ALGEBRA and MEASUREMENT**

**AUTUMN TERM, SPRING TERM and SUMMER TERM**

<b>8</b>	Lesson 3 – Fractions on a number line	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> </ul>	
	Lesson 4 – Comparing and ordering fractions (1)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> </ul>	
	Lesson 5 – Comparing and ordering fractions (2)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</li> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> </ul>	
	Lesson 6 – Adding and subtracting fractions (1)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>	
<b>9</b>	Lesson 7 – Adding and subtracting fractions (2)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>	
	Lesson 8 – Adding fractions	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>	
	Lesson 9 – Subtracting fractions	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>	
	Lesson 10 – Problem solving – adding and subtracting fractions (1)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>	
<b>10</b>	Lesson 11 – Problem solving – adding and subtracting fractions (2)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> </ul>	
	<b>Unit 5 – Fractions (2)</b>	Lesson 1 – Multiplying a fraction by a whole number	Number – Fractions (including decimals and percentages)	<i>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. (YEAR FIVE)</i>

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

**KEY: NUMBER, GEOMETRY, STATISTICS, RATIO AND PROPORTION, ALGEBRA and MEASUREMENT**

**AUTUMN TERM, SPRING TERM and SUMMER TERM**

11		Lesson 2 – Multiplying a fraction by a fraction (1)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Multiply simple pairs of proper fractions, writing the answer in its simplest form.</li> </ul>
		Lesson 3 – Multiplying a fraction by a fraction (2)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Multiply simple pairs of proper fractions, writing the answer in its simplest form.</li> </ul>
		Lesson 4 – Dividing a fraction by a whole number (1)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Divide proper fractions by whole numbers.</li> </ul>
		Lesson 5 – Dividing a fraction by a whole number (2)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Divide proper fractions by whole numbers.</li> </ul>
		Lesson 6 – Dividing a fraction by a whole number (3)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Divide proper fractions by whole numbers.</li> </ul>
		<i>Lesson 7 – Four rules with fractions</i>	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Use their knowledge of the order of operations to carry out calculations involving the four operations.</li> </ul>
		12		Lesson 8 – Calculating fractions of amounts
Lesson 9 – Problem solving – fractions of amounts	Number – Fractions (including decimals and percentages)			<ul style="list-style-type: none"> <li>Use written division methods in cases where the answer has up to two decimal places.</li> </ul>
1	<b>Unit 6 – Geometry – position and direction</b>	Lesson 1- Plotting coordinates in the first quadrant	Geometry	<ul style="list-style-type: none"> <li>Describe positions on the full coordinate grid (all four quadrants).</li> </ul>
		Lesson 2 – Plotting coordinates	Geometry	<ul style="list-style-type: none"> <li>Describe positions on the full coordinate grid (all four quadrants).</li> </ul>
		Lesson 3 – Plotting translations and reflections	Geometry	<ul style="list-style-type: none"> <li>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>
		Lesson 4 – Reasoning about shapes with coordinates.	Geometry	<ul style="list-style-type: none"> <li>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

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**AUTUMN TERM, SPRING TERM and SUMMER TERM**

	<b>Unit 7 - Decimals</b>	Lesson 1 – multiplying by 10, 100 and 1,000	<b>Number – Fractions (including decimals and percentages)</b>	<ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul>
		Lesson 2 – Dividing by multiples of 10,100 and 1,000	<b>Number – Fractions (including decimals and percentages)</b>	<ul style="list-style-type: none"> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul>
<b>2</b>		Lesson 3 – Decimals as fractions	<b>Number – Fractions (including decimals and percentages)</b>	<ul style="list-style-type: none"> <li>Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.</li> <li>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places.</li> </ul>
		Lesson 4 – Fractions as decimals (1)	<b>Number – Fractions (including decimals and percentages)</b>	<ul style="list-style-type: none"> <li>Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.</li> </ul>
		Lesson 5 – Fractions as decimals (2)	<b>Number – Fractions (including decimals and percentages)</b>	<ul style="list-style-type: none"> <li>Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.</li> <li>Use written division methods in cases where the answer has up to two decimal places.</li> </ul>
		Lesson 6 – Multiplying decimals (1)	<b>Number – Fractions (including decimals and percentages)</b>	<ul style="list-style-type: none"> <li>Multiply one-digit numbers with up to two decimal places by whole numbers.</li> </ul>
<b>3</b>		Lesson 7 – Multiplying decimals (2)	<b>Number – Fractions (including decimals and percentages)</b>	<ul style="list-style-type: none"> <li>Multiply one-digit numbers with up to two decimal places by whole numbers.</li> </ul>
		Lesson 8 – Dividing decimals (1)	<b>Number – Fractions (including decimals and percentages)</b>	<ul style="list-style-type: none"> <li>Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.</li> <li>Solve problems which require answers to be rounded to specified degrees of accuracy.</li> </ul>
		Lesson 9 – Dividing decimals (2)	<b>Number – Fractions (including decimals and percentages)</b>	<ul style="list-style-type: none"> <li>Use written division methods in cases where the answer has up to two decimal places.</li> <li>Solve problems which require answers to be rounded to specified degrees of accuracy.</li> </ul>

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

**KEY: NUMBER, GEOMETRY, STATISTICS, RATIO AND PROPORTION, ALGEBRA and MEASUREMENT**

**AUTUMN TERM, SPRING TERM and SUMMER TERM**

<b>4</b>	<b>Unit 8 - Percentages</b>	Lesson 1 – Percentages of (1)	Number – Fractions (including decimals and percentages) Ratio and proportion	<ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> <li>Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>
		Lesson 2 – Percentages of (2)	Number – Fractions (including decimals and percentages) Ratio and proportion	<ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> <li>Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>
		Lesson 3 – Percentages of (3)	Number – Fractions (including decimals and percentages) Ratio and proportion	<ul style="list-style-type: none"> <li>Multiply simple pairs of proper fractions, writing the answer in its simplest form.</li> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> <li>Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>
		Lesson 4 – Percentages of (4)	Number – Fractions (including decimals and percentages) Ratio and proportion	<ul style="list-style-type: none"> <li>Multiply one-digit numbers with up to two decimal places by whole numbers.</li> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> <li>Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>
		Lesson 5 – Finding missing values	Number – Fractions (including decimals and percentages) Ratio and proportion	<ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> <li>Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>
<b>5</b>		Lesson 6 - Converting fractions to percentages	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>



## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

**KEY: NUMBER, GEOMETRY, STATISTICS, RATIO AND PROPORTION, ALGEBRA and MEASUREMENT**

**AUTUMN TERM, SPRING TERM and SUMMER TERM**

		Lesson 7 – Equivalent fractions, decimals and percentages (1)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>
		Lesson 8 – Equivalent fractions, decimals and percentages (2)	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Compare and order fractions, including fractions <math>&gt; 1</math>.</li> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>
		Lesson 9 – Mixed problem solving	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Solve problems which require answers to be rounded to specified degrees of accuracy.</li> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>
6	<b>Unit 9 - Algebra</b>	Lesson 1 – Finding a rule (1)	Algebra	<ul style="list-style-type: none"> <li>Use simple formulae.</li> <li>Generate and describe linear number sequences</li> </ul>
		Lesson 2 – Finding a rule (2)	Algebra	<ul style="list-style-type: none"> <li>Use simple formulae.</li> <li>Generate and describe linear number sequences</li> </ul>
		Lesson 3 – Using a rule (1)	Algebra	<ul style="list-style-type: none"> <li>Generate and describe linear number sequences.</li> <li>Express missing number problems algebraically</li> </ul>
		Lesson 4 – Using a rule (2)	Algebra	<ul style="list-style-type: none"> <li>Generate and describe linear number sequences.</li> <li>Express missing number problems algebraically</li> </ul>
7		Lesson 5 – Using a rule (3)	Algebra	<ul style="list-style-type: none"> <li>Generate and describe linear number sequences.</li> </ul>
		Lesson 6 – Formulae	Algebra	<ul style="list-style-type: none"> <li>Use simple formulae.</li> <li>Enumerate possibilities of combinations of two variables</li> </ul>
		Lesson 7 – Solving equations (1)	Algebra	<ul style="list-style-type: none"> <li>Express missing number problems algebraically.</li> </ul>
8		Lesson 8 – Solving equations (2)	Algebra	<ul style="list-style-type: none"> <li>Express missing number problems algebraically.</li> </ul>
		Lesson 9 – Solving equations (3)	Algebra	<ul style="list-style-type: none"> <li>Express missing number problems algebraically.</li> </ul>
		Lesson 10 – Solving equations (4)	Algebra	<ul style="list-style-type: none"> <li>Express missing number problems algebraically.</li> <li>Find pairs of numbers that satisfy an equation with two unknowns.</li> <li>Enumerate possibilities of combinations of two variables.</li> </ul>
		Lesson 11 – Solving equations (5)	Algebra	<ul style="list-style-type: none"> <li>Find pairs of numbers that satisfy an equation with two unknowns.</li> <li>Enumerate possibilities of combinations of two variables.</li> </ul>
	<b>Unit 10 – Measure – imperial</b>	Lesson 1 – Metric measures	Measurement	<ul style="list-style-type: none"> <li>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.</li> </ul>

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

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**AUTUMN TERM, SPRING TERM and SUMMER TERM**

<b>9</b>	<b>and metric measures</b>	Lesson 2 – Converting metric measures	<b>Measurement</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>	
		Lesson 3 – Problem solving – metric measures	<b>Measurement</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>	
		Lesson 4 – Miles and km	<b>Measurement</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>	
		Lesson 5 – Imperial measures	<b>Measurement</b>	<ul style="list-style-type: none"> <li>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.</li> </ul>	
<b>11</b>	<b>Unit 11 – Measure – perimeter, area and volume</b>	Lesson 1 – Shapes with the same area	<b>Measurement</b>	<ul style="list-style-type: none"> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> </ul>	
		Lesson 2 – Area and perimeter (1)	<b>Measurement</b>	<ul style="list-style-type: none"> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> </ul>	
		Lesson 3 – Area and perimeter (2)	<b>Measurement</b>	<ul style="list-style-type: none"> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> </ul>	
		Lesson 4 – Area of a parallelogram	<b>Measurement</b>	<ul style="list-style-type: none"> <li>Recognise when it is possible to use formulae for area and volume of shapes.</li> <li>Calculate the area of parallelograms and triangles.</li> </ul>	
		Lesson 5 – Area of a triangle (1)	<b>Measurement</b>	<ul style="list-style-type: none"> <li>Calculate the area of parallelograms and triangles.</li> </ul>	
		Lesson 6 – Area of a triangle (2)	<b>Measurement</b>	<ul style="list-style-type: none"> <li>Calculate the area of parallelograms and triangles.</li> </ul>	
		Lesson 7 – Area of a triangle (3)	<b>Measurement</b>	<ul style="list-style-type: none"> <li>Calculate the area of parallelograms and triangles.</li> </ul>	
		Lesson 8 – Problem solving – area	<b>Measurement</b>	<ul style="list-style-type: none"> <li>Calculate the area of parallelograms and triangles.</li> </ul>	
		<b>12</b>	Lesson 9 – Problem solving – perimeter	<b>Measurement</b>	<ul style="list-style-type: none"> <li>Recognise that shapes with the same areas can have different perimeters and vice versa.</li> </ul>
			Lesson 10 – Volume of a cuboid (1)	<b>Measurement</b>	<ul style="list-style-type: none"> <li>Recognise when it is possible to use formulae for area and volume of shapes.</li> </ul>

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

**KEY: NUMBER, GEOMETRY, STATISTICS, RATIO AND PROPORTION, ALGEBRA and MEASUREMENT**

**AUTUMN TERM, SPRING TERM and SUMMER TERM**

			<ul style="list-style-type: none"> <li>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm<sup>3</sup>) and cubic metres (m<sup>3</sup>), and extending to other units (for example, mm<sup>3</sup> and km<sup>3</sup>).</li> </ul>	
	Lesson 11- Volume of a cuboid (2)	Measurement	<ul style="list-style-type: none"> <li>Recognise when it is possible to use formulae for area and volume of shapes.</li> <li>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm<sup>3</sup>) and cubic metres (m<sup>3</sup>), and extending to other units (for example, mm<sup>3</sup> and km<sup>3</sup>).</li> </ul>	
1	<b>Unit 12 – Ratio and proportion</b>	Lesson 1 – Ratio (1)	Ratio and proportion	<ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>
	Lesson 2 – Ratio (2)	Ratio and proportion	<ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>	
	Lesson 3 – Ratio (3)	Ratio and proportion	<ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>	
	Lesson 4 – Ratio (4)	Ratio and proportion	<ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>	
	Lesson 5 – Scale drawings	Ratio and proportion	<ul style="list-style-type: none"> <li>Solve problems involving similar shapes where the scale factor is known or can be found.</li> </ul>	
2	Lesson 6 – Scale factors	Ratio and proportion	<ul style="list-style-type: none"> <li>Solve problems involving similar shapes where the scale factor is known or can be found.</li> </ul>	
	Lesson 7 – Similar shapes	Ratio and proportion	<ul style="list-style-type: none"> <li>Solve problems involving similar shapes where the scale factor is known or can be found.</li> </ul>	
	Lesson 8 – Problem solving – ratio and proportion (1)	Ratio and proportion	<ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>	

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

**KEY: NUMBER, GEOMETRY, STATISTICS, RATIO AND PROPORTION, ALGEBRA and MEASUREMENT**

**AUTUMN TERM, SPRING TERM and SUMMER TERM**

		Lesson 9 – Problem solving – ratio and proportion (2)	Ratio and proportion	<ul style="list-style-type: none"> <li>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</li> <li>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</li> </ul>
3	<b>Unit 13 – Geometry – properties of shapes</b>	Lesson 1 – Measuring with a protractor	Geometry	<ul style="list-style-type: none"> <li>Draw 2D shapes using given dimensions and angles.</li> </ul>
		Lesson 2 – Drawing shapes accurately	Geometry	<ul style="list-style-type: none"> <li>Draw 2D shapes using given dimensions and angles.</li> </ul>
		Lesson 3 – Angles in triangles (1)	Geometry	<ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>
		Lesson 4 – Angles in triangles (2)	Geometry	<ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>
4		Lesson 5 – Angles in triangles (3)	Geometry	<ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>
		Lesson 6 – Angles in polygons (1)	Geometry	<ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>
		Lesson 7 – Angles in polygons (2)	Geometry	<ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> </ul>
		Lesson 8 – Vertical opposite angles	Geometry	<ul style="list-style-type: none"> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>
5		Lesson 9 – Equal distance	Geometry	<ul style="list-style-type: none"> <li>Illustrate and name parts of circles, including radius, diameter and circumference, and know that the diameter is twice the radius.</li> </ul>
		Lesson 10 – Parts of a circle	Geometry	<ul style="list-style-type: none"> <li>Illustrate and name parts of circles, including radius, diameter and circumference, and know that the diameter is twice the radius.</li> </ul>
		Lesson 11 – Nets (1)	Geometry	<ul style="list-style-type: none"> <li>Recognise, describe and build simple 3D shapes, including making nets.</li> </ul>
		Lesson 12 – Nets (2)	Geometry	<ul style="list-style-type: none"> <li>Recognise, describe and build simple 3D shapes, including making nets.</li> </ul>
6	<b>Unit 14 – Problem solving</b>	Lesson 1 – Problem solving – place value	Number- Number and place value	<ul style="list-style-type: none"> <li>Solve number and practical problems that involve all of the above.</li> </ul>
		Lesson 2 – Problem solving – negative numbers	Number- Number and place value	<ul style="list-style-type: none"> <li>Solve number and practical problems that involve all of the above.</li> </ul>

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

**KEY: NUMBER, GEOMETRY, STATISTICS, RATIO AND PROPORTION, ALGEBRA and MEASUREMENT**

### AUTUMN TERM, SPRING TERM and SUMMER TERM

<b>7</b>	Lesson 3 – Problem solving – addition and subtraction	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> <li>Solve problems involving addition, subtraction, multiplication and division.</li> <li>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</li> </ul>
	Lesson 4 – Problem solving – four operations (1)	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Use their knowledge of the order of operations to carry out calculations involving the four operations.</li> <li>Solve problems involving addition, subtraction, multiplication and division.</li> <li>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</li> </ul>
	Lesson 5 – Problem solving – four operations (2)	Number – addition, subtraction, multiplication and division	<ul style="list-style-type: none"> <li>Solve problems involving addition, subtraction, multiplication and division.</li> </ul>
	Lesson 6 – Problem solving – fractions	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>
	Lesson 7 – Problem solving – decimals	Number – Fractions (including decimals and percentages)	<ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> </ul>
<b>8</b>	Lesson 8 – Problem solving – percentages	Number – Fractions (including decimals and percentages) Ratio and proportion	<ul style="list-style-type: none"> <li>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</li> <li>Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>
	Lesson 9 – Problem solving – ratio and proportion	Ratio and proportion	<ul style="list-style-type: none"> <li>Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> </ul>
	Lesson 10 – Problem solving – time (1)	Measurement	<ul style="list-style-type: none"> <li>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.</li> </ul>
	Lesson 11 – Problem solving – time (2)	Measurement	<ul style="list-style-type: none"> <li>Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of</li> </ul>

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

**KEY: NUMBER, GEOMETRY, STATISTICS, RATIO AND PROPORTION, ALGEBRA and MEASUREMENT**

**AUTUMN TERM, SPRING TERM and SUMMER TERM**

<b>9</b>			measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.	
		Lesson 12 – Problem solving – position and direction	Measurement	<ul style="list-style-type: none"> <li>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</li> </ul>
		Lesson 13 – Problem solving – properties of shapes (1)	Geometry	<ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>
		Lesson 14 – Problem solving – properties of shapes (2)	Geometry	<ul style="list-style-type: none"> <li>Compare and classify geometric shapes based on their properties and sizes, and find unknown angles in any triangles, quadrilaterals and regular polygons.</li> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> </ul>
<b>10</b>	<b>Unit 15 - Statistics</b>	Lesson 1 – The mean (1)	Statistics	<ul style="list-style-type: none"> <li>Calculate and interpret the mean as an average.</li> </ul>
		Lesson 2 – The mean (2)	Statistics	<ul style="list-style-type: none"> <li>Calculate and interpret the mean as an average.</li> </ul>
		Lesson 3 - The mean (3)	Statistics	<ul style="list-style-type: none"> <li>Calculate and interpret the mean as an average.</li> </ul>
		Lesson 4 – Introducing pie charts	Statistics	<ul style="list-style-type: none"> <li>Interpret and construct pie charts and line graphs and use these to solve problems.</li> </ul>
		Lesson 5 – Reading and interpreting pie charts	Statistics	<ul style="list-style-type: none"> <li>Interpret and construct pie charts and line graphs and use these to solve problems.</li> </ul>
<b>11</b>		Lesson 6 – Fractions and pie charts (1)	Statistics	<ul style="list-style-type: none"> <li>Interpret and construct pie charts and line graphs and use these to solve problems.</li> </ul>
		Lesson 7 - Fractions and pie charts (2)	Statistics	<ul style="list-style-type: none"> <li>Interpret and construct pie charts and line graphs and use these to solve problems.</li> </ul>
		Lesson 8 – Percentages and pie charts	Number- addition, subtraction, multiplication and division Ratio and proportion Statistics	<ul style="list-style-type: none"> <li>Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</li> <li>Solve problems involving the calculation of percentages (for example, of measures, and such as 15% of 360) and the use of percentages for comparison.</li> <li>Interpret and construct pie charts and line graphs and use these to solve problems.</li> </ul>

## YEAR 6 MATHEMATICS LONG TERM OVERVIEW

KEY: **NUMBER**, **GEOMETRY**, **STATISTICS**, **RATIO AND PROPORTION**, **ALGEBRA** and **MEASUREMENT**

**AUTUMN TERM**, **SPRING TERM** and **SUMMER TERM**

12	Lesson 9 – Interpreting line graphs	Number- addition, subtraction, multiplication and division Statistics Statistics	<ul style="list-style-type: none"><li>• Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</li><li>• Interpret and construct pie charts and line graphs and use these to solve problems.</li></ul>
	Lesson 10 – Constructing line graphs.		<ul style="list-style-type: none"><li>• Interpret and construct pie charts and line graphs and use these to solve problems.</li></ul>
<i>Transition work</i>			
<i>Transition work</i>			
<i>Transition work</i>			