

# Skills Progression: Mathematics



## EYFS

### Mathematics

**In EYFS pupils are assessed against two Early Learning Goals (ELG) for Maths. These are in: *Number* and *Numerical Patterns*.**

*Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers. By providing frequent and varied opportunities to build and apply this understanding - such as using manipulatives, including small pebbles and tens frames for organising counting - children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.*

**pg 10. EYFS Statutory Framework  
January 2024**

**Children at the expected level of development will:**

*Number:*

- Have a deep understanding of number to 10, including the composition of each number;
- Subitise (recognise quantities without counting) up to 5;
- Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts

*Numerical Patterns:*

- Verbally count beyond 20, recognising the pattern of the counting system;
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; 27
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p><b>Knowledge:</b> (National Curriculum Coverage – Statutory Requirements)</p> <p><b>Number and Place Value</b></p>	<p><u>Number and Place Value:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number</li> <li>- count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens</li> <li>- given a number, identify one more and one less</li> <li>- identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least</li> <li>- read and write numbers from 1 to</li> </ul>	<p><u>Number and Place Value:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward</li> <li>- recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>- identify, represent and estimate numbers using different representations, including the number line</li> <li>- compare and order numbers from 0 up to 100; use and = signs</li> <li>- read and write numbers to at least 100 in numerals and in words</li> <li>- use place value and number facts to solve problems.</li> </ul>	<p><u>Number and Place Value:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</li> <li>- recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</li> <li>- compare and order numbers up to 1000</li> <li>- identify, represent and estimate numbers using different representations</li> <li>- read and write numbers up to 1000 in numerals and in words</li> <li>- solve number problems and practical problems involving these ideas.</li> </ul>	<p><u>Number and Place Value:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- count in multiples of 6, 7, 9, 25 and 1000</li> <li>- find 1000 more or less than a given number</li> <li>- count backwards through zero to include negative numbers</li> <li>- recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li> <li>- order and compare numbers beyond 1000</li> <li>- identify, represent and estimate numbers using different representations</li> <li>- round any number to the nearest 10, 100 or 1000</li> <li>- solve number and practical problems</li> </ul>	<p><u>Number and Place Value:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</li> <li>- count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</li> <li>- interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</li> <li>- round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</li> <li>- solve number problems and practical problems that involve all of the above</li> </ul>	<p><u>Number and Place Value:</u> Pupils should be taught to:</p> <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>- round any whole number to a required degree of accuracy</li> <li>- use negative numbers in context, and calculate intervals across zero</li> <li>- solve number and practical problems that involve all of the above.</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<i>20 in numerals and words.</i>			<i>that involve all of the above and with increasingly large positive numbers</i> - <i>read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</i>	- <i>read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</i>	
<b>Number and Place Value</b>	<ul style="list-style-type: none"> <li>- Identify and represent numbers using objects and pictorial representations including the number line, and use the language of; equal to, more than, less than (fewer) most, least.</li> <li>- Read and write numbers from 1-20 in numerals and words.</li> <li>- Count to and across 100, forwards and backwards,</li> </ul>	<ul style="list-style-type: none"> <li>- Identify, represent and estimate numbers.</li> <li>- Compare and order numbers from 0 to 100. Use &lt; &gt; symbols and = sign</li> <li>- Read and write numbers to 100 in numerals and words.</li> <li>- Count in steps of 2,3,and 5 from 0 and in tens from any number, forward and backward.</li> <li>- Recognising place value of 2 digit numbers.</li> </ul>	<ul style="list-style-type: none"> <li>- Identify, represent and estimate numbers using different representations.</li> <li>- Read and write numbers up to 1000 in numerals in words. Recognise place value of 3 digit numbers.</li> <li>- Compare and order numbers up to 1000.</li> <li>- Count from 0 in multiples of 4,8,50 and 100. Find 10 or 100 more or less than a given number.</li> </ul>	<ul style="list-style-type: none"> <li>- Identify, represent and estimate numbers using different representations.</li> <li>- Round any number to the nearest 10, 100, 1000.</li> <li>- Count in multiples of 6,7,9, 25 and 1000.</li> <li>- Find 1000 more or less than a given number.</li> <li>- Recognise the place value of each digit in a four-digit number.</li> <li>- Order and compare numbers</li> </ul>	<ul style="list-style-type: none"> <li>- Read, write, order and compare numbers to at least 1,000 000 and determine the value of each digit.</li> <li>- Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100, 000.</li> <li>- Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.</li> <li>- Interpret negative numbers in context, count</li> </ul>	<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>- Round any whole number to a required degree of accuracy.</li> <li>- Use negative numbers in context, and calculate intervals across zero.</li> <li>- Solve number and practical problems that involve all of the above.</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	beginning with 0 or 1, or from any given number. - Count, read and write numbers to 100 in numerals. Count in multiples of 10. - Given a number, identify one more and one less. - Count in multiples of 2s and 5s.	- Use place value and number facts to solve problems.	- Solve place value problems using one, tens and hundreds.	beyond 1000. - Read Roman numerals to 100 and know that over time the numeral system changed to include the concept of zero and place value. - Add and subtract with up to 4 digit using the columnar method. Count backwards through zero to include negative numbers. - Solve number and practical problems which involve rounding numbers and place value.	forwards and backwards with positive and negative whole numbers, including through zero. - Solve number problems and practical problems that involve all of the above. - Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	
<b>Key Vocabulary: Number and Place Value</b>  <i>This section identifies key vocabulary which should be introduced and explicitly taught in each year group. Language should be revisited year on year, retrieved regularly and</i>	<ul style="list-style-type: none"> <li>Sort</li> <li>Represent</li> <li>Multiples</li> <li>Partitioning</li> <li>Ones</li> <li>Tens</li> </ul>	<ul style="list-style-type: none"> <li>Count in steps</li> <li>Count in multiples</li> <li>Place value</li> <li>Estimate</li> <li>Compare</li> </ul>	<ul style="list-style-type: none"> <li>Ascending</li> <li>Descending</li> <li>10 or 100 more</li> <li>10 or 100 less</li> <li>Hundreds</li> </ul>	<ul style="list-style-type: none"> <li>Negative numbers</li> <li>Roman numerals</li> <li>1000 more</li> <li>1000 less</li> <li>Thousands</li> <li>Round</li> </ul>	<ul style="list-style-type: none"> <li>Ten thousands</li> <li>One hundred thousand</li> <li>Powers of</li> <li>Integer</li> </ul>	<ul style="list-style-type: none"> <li>Millions</li> <li>Ten millions</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<i>pupils understanding of these key words should be checked often.</i>						
<p><b>Knowledge:</b> (National Curriculum Coverage – Statutory Requirements)</p> <p><b>Addition and Subtraction</b></p>	<p><u>Addition and Subtraction:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- read, write and interpret mathematical statements involving addition (+), subtraction, (–) and equals (=) signs</li> <li>- represent and use number bonds and related subtraction facts within 20</li> <li>- add and subtract one-digit and two-digit numbers to 20, including zero</li> <li>- solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems</li> </ul>	<p><u>Addition and Subtraction:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- solve problems with addition and subtraction:</li> <li>- using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>- applying their increasing knowledge of mental and written methods</li> <li>- recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</li> <li>- add and subtract numbers using concrete objects,</li> </ul>	<p><u>Addition and Subtraction:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and ten; a three-digit number and hundreds</li> <li>- add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</li> <li>- estimate the answer to a calculation and use inverse operations to check answers</li> <li>- solve problems, including missing number problems, using number</li> </ul>	<p><u>Addition and Subtraction:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>- estimate and use inverse operations to check answers to a calculation</li> <li>- solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>	<p><u>Addition and Subtraction:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</li> <li>- add and subtract numbers mentally with increasingly large numbers</li> <li>- use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</li> <li>- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> </ul>	<p><u>Addition, Subtraction, Multiplication and Division:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- perform mental calculations, including with mixed operations and large numbers</li> <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</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<i>such as <math>7 = -9</math>.</i>	<p><i>pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers</i></p> <ul style="list-style-type: none"> <li><i>- show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</i></li> <li><i>- recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</i></li> </ul>	<i>facts, place value, and more complex addition and subtraction.</i>			<i>accuracy.</i>
<b>Addition and Subtraction</b>	<ul style="list-style-type: none"> <li>- Read, write and interpret mathematical statements involving +, -, = signs.</li> </ul>	<ul style="list-style-type: none"> <li>- Add and subtract numbers using concrete objects, pictorial representations and mentally</li> </ul>	<ul style="list-style-type: none"> <li>- Add and subtract numbers mentally including</li> <li>- 3 digit numbers and ones</li> <li>- 3 digit numbers</li> </ul>	<ul style="list-style-type: none"> <li>- Add and subtract numbers with up to 4 digits using the formal written method of columnar addition</li> </ul>	<ul style="list-style-type: none"> <li>- Add and subtract whole numbers with more than 4 digits, including using columnar written methods.</li> </ul>	<ul style="list-style-type: none"> <li>- Solves addition and subtraction multi-step problems in context</li> <li>- Perform mental</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<ul style="list-style-type: none"> <li>- Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations.</li> <li>- Represent and use number bonds and related subtraction facts to 20.</li> <li>- Solve missing number problems.</li> </ul>	<ul style="list-style-type: none"> <li>- including a 2-digit number and ones</li> <li>- 2-digit number and tens</li> <li>- two 2-digit numbers</li> <li>- adding three one digit numbers</li> <li>- Solve problems with addition and subtraction:</li> <li>- Using concrete and pictorial representations, including those involving numbers, quantities and measures</li> <li>- Solves problems with addition and subtraction applying their increasing knowledge of mental and written methods</li> <li>- Recall and use addition facts to 20. Use related facts to 100.</li> <li>- Recognise &amp; use inverse.</li> </ul>	<ul style="list-style-type: none"> <li>- and tens</li> <li>- 3 digit numbers and hundreds</li> <li>- Add and subtract numbers with up to 3 digit numbers using column methods.</li> <li>- Solve problems including missing numbers using number facts.</li> <li>- Estimate the answer to a calculation and use inverse methods to check answers.</li> </ul>	<ul style="list-style-type: none"> <li>- and subtraction where appropriate</li> <li>- Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.</li> <li>- Estimate and use inverse operations to check answers to calculations.</li> </ul>	<ul style="list-style-type: none"> <li>- Add and subtract numbers mentally with an increasingly large numbers</li> <li>- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why including understanding the meaning of the equals sign</li> <li>- Uses rounding to check answers to calculations and determines, in the context of a problem, levels of accuracy</li> </ul>	<ul style="list-style-type: none"> <li>- calculation, including mixed operations and large numbers.</li> <li>- Use knowledge of the order of operations to carry out calculations involving the 4 operations.</li> <li>- Solve + and – multi-step problems in contexts, deciding which operations and methods to use and why.</li> <li>- Use estimation to check answers and determine an appropriate degree of accuracy.</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p><b>Key Vocabulary:</b> <b>Addition and Subtraction</b></p> <p><i>This section identifies key vocabulary which should be introduced and explicitly taught in each year group. Language should be revisited year on year, retrieved regularly and pupils understanding of these key words should be checked often.</i></p>	<ul style="list-style-type: none"> <li>• Addition/add</li> <li>• Subtraction</li> <li>• Difference</li> <li>• Equals</li> <li>• Facts</li> <li>• Problems</li> <li>• Missing number problems</li> <li>• 2-digit number</li> <li>• Inverse</li> </ul>	<ul style="list-style-type: none"> <li>• Sum</li> <li>• 3-digit number</li> <li>• Commutative</li> </ul>	<ul style="list-style-type: none"> <li>• Column addition</li> <li>• Column subtraction</li> <li>• Exchange</li> <li>• Estimate</li> </ul>	<ul style="list-style-type: none"> <li>• 4-digit number</li> <li>• Operations</li> <li>• Methods</li> </ul>	No new vocabulary introduced.	No new vocabulary introduced.
<p><b>Knowledge:</b> (National Curriculum Coverage – Statutory Requirements)</p> <p><b>Multiplication and Division</b></p>	<p><u>Multiplication and Division:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher</li> </ul>	<p><u>Multiplication and Division:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>- calculate mathematical statements for multiplication and division within the multiplication tables and write them using the</li> </ul>	<p><u>Multiplication and Division:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</li> <li>- write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit</li> </ul>	<p><u>Multiplication and Division:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>- use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three</li> </ul>	<p><u>Multiplication and Division:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</li> <li>- know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</li> <li>- establish whether a number up to 100 is prime and</li> </ul>	<p><u>Multiplication and Division:</u> Pupils should be taught to:</p> <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> <li>- divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret</li> </ul>



Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		<p>multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</p> <ul style="list-style-type: none"> <li>- show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>- solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</li> </ul>	<p>numbers, using mental and progressing to formal written methods</p> <ul style="list-style-type: none"> <li>- solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>	<p>numbers</p> <ul style="list-style-type: none"> <li>- recognise and use factor pairs and commutativity in mental calculations</li> <li>- multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> <li>- 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 <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>	<p>recall prime numbers up to 19</p> <ul style="list-style-type: none"> <li>- 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</li> <li>- multiply and divide numbers mentally drawing upon known facts</li> <li>- 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</li> <li>- multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</li> <li>- recognise and use square numbers and cube numbers,</li> </ul>	<p>remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</p> <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> <li>- perform mental calculations, including with mixed operations and large numbers</li> <li>- identify common factors, common multiples and prime numbers</li> <li>- use their knowledge of the order of operations to carry out calculations involving the four</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					<i>and the notation for squared ( 2 ) and cubed ( 3 )</i> - <i>solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</i> - <i>solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</i> - <i>solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</i>	<i>operations</i> - <i>solve problems involving addition, subtraction, multiplication and division</i> - <i>use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</i>
<b>Multiplication and Division</b>	- Solve one step problems involving multiplication and division,	- Recall and use multiplication and division facts for the 2, 5 and 10	- Recall and use multiplication and division facts for the 3, 4 and 8	- Recall multiplication and division facts for multiplication	- Identify multiples and factors, including finding all factor pairs of a	- Identify common factors, common multiples and prime numbers.

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	<p>multiplication tables including recognising odd and even numbers</p> <ul style="list-style-type: none"> <li>Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (<math>\div</math>) and equals (=) signs</li> <li>Solve problems involving multiplication and division, using materials arrays, repeated addition, mental methods, and multiplication and division facts,</li> </ul>	<p>multiplication tables</p> <ul style="list-style-type: none"> <li>Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</li> <li>Solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul>	<p>tables up to 12 x 12</p> <ul style="list-style-type: none"> <li>Use place value, known and derived facts to multiply and divide mentally, including the following: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>Recognise and use factor pairs and commutativity in mental calculations</li> <li>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> <li>Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer</li> </ul>	<p>number, and common factors of two numbers</p> <ul style="list-style-type: none"> <li>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</li> <li>Establish whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>Recognise and use square numbers and cube numbers, and the notation for square and cubed</li> <li>solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</li> <li>Solve problems involving addition, subtraction, multiplication and division and a</li> </ul>	<ul style="list-style-type: none"> <li>Use estimation to check answers to calculations and determine, in the context of the problem, an appropriate degree of accuracy.</li> <li>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> <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> <li>Divide numbers up to 4 digits by a</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		including problems in contexts		scaling problems and harder correspondence problems such as which n objects are connected to m objects	combination of these, including understanding the meaning of the equals sign - Solve problems involving multiplication and division, including scaling by simple fractions and problems	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 all four operations - Use their knowledge of the order of operations to carry out calculations involving the four operations - Using their knowledge of the order of operations to carry out calculations involving the four operations - Solve problems involving addition,

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						subtraction, multiplication and division
<b>Key Vocabulary: Multiplication and Division</b>  <i>This section identifies key vocabulary which should be introduced and explicitly taught in each year group. Language should be revisited year on year, retrieved regularly and pupils understanding of these key words should be checked often.</i>	<ul style="list-style-type: none"> <li>• Multiplication</li> <li>• Division</li> <li>• Arrays</li> </ul>	<ul style="list-style-type: none"> <li>• Multiplication tables</li> <li>• Commutative</li> <li>• Repeated addition</li> </ul>	<ul style="list-style-type: none"> <li>• Exchange</li> <li>• Mathematical statements</li> <li>• Missing number problems</li> <li>• Integer scaling problems</li> <li>• Correspondence problems</li> <li>• Derived facts</li> </ul>	<ul style="list-style-type: none"> <li>• Factor pairs</li> <li>• Formal written layout</li> <li>• Distributive law</li> <li>• Remainders</li> </ul>	<ul style="list-style-type: none"> <li>• Multiples</li> <li>• Factors</li> <li>• Prime numbers</li> <li>• Square numbers</li> <li>• Cube numbers</li> <li>• Short division</li> <li>• Product</li> <li>• Dividend</li> <li>• Divisor</li> <li>• Quotient</li> <li>• Operations</li> </ul>	<ul style="list-style-type: none"> <li>• Multi-digit numbers</li> <li>• Long division</li> </ul>
<b>Knowledge:</b> (National Curriculum Coverage – Statutory Requirements)  <b>Fractions</b> (decimals and percentages)	<u>Fractions:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- recognise, find and name a half as one of two equal parts of an object, shape or quantity</li> <li>- recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.</li> </ul>	<u>Fractions:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- recognise, find, name and write fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity</li> <li>- write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3 and recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math>.</li> </ul>	<u>Fractions:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</li> <li>- recognise, find and write fractions of a discrete set of objects: unit fractions and non-</li> </ul>	<u>Fractions (including decimals):</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- recognise and show, using diagrams, families of common equivalent fractions</li> <li>- count up and down in hundredths; recognise that hundredths arise when dividing an object by one</li> </ul>	<u>Fractions (including decimals and percentages):</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- compare and order fractions whose denominators are all multiples of the same number</li> <li>- identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and</li> </ul>	<u>Fractions (including decimals and percentages):</u> Pupils should be taught to: <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 &gt; 1</li> <li>- add and subtract</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			<p>unit fractions with small denominators</p> <ul style="list-style-type: none"> <li>- recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</li> <li>- recognise and show, using diagrams, equivalent fractions with small denominators</li> <li>- add and subtract fractions with the same denominator within one whole [for example, <math>\frac{5}{7} + \frac{1}{7} = \frac{6}{7}</math>]</li> <li>- compare and order unit fractions, and fractions with the same denominators</li> <li>- solve problems that involve all of the above.</li> </ul>	<p>hundred and dividing tenths by ten.</p> <ul style="list-style-type: none"> <li>- 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</li> <li>- add and subtract fractions with the same denominator</li> <li>- recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>- recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math></li> <li>- find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits</li> </ul>	<p>hundredths</p> <ul style="list-style-type: none"> <li>- recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt; 1</math> as a mixed number [for example, <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>]</li> <li>- add and subtract fractions with the same denominator and denominators that are multiples of the same number</li> <li>- multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</li> <li>- read and write decimal numbers as fractions [for example, <math>0.71 = \frac{71}{100}</math>]</li> <li>- recognise and use thousandths and</li> </ul>	<p>fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p> <ul style="list-style-type: none"> <li>- multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>]</li> <li>- divide proper fractions by whole numbers [for example, <math>\frac{1}{3} \div 2 = \frac{1}{6}</math>]</li> <li>- associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, <math>\frac{3}{8}</math>]</li> <li>- identify the value of each digit in numbers given to three decimal places and multiply and divide</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				<p><i>in the answer as ones, tenths and hundredths</i></p> <ul style="list-style-type: none"> <li>- <i>round decimals with one decimal place to the nearest whole number</i></li> <li>- <i>compare numbers with the same number of decimal places up to two decimal places</i></li> <li>- <i>solve simple measure and money problems involving fractions and decimals to two decimal places.</i></li> </ul>	<p><i>relate them to tenths, hundredths and decimal equivalents</i></p> <ul style="list-style-type: none"> <li>- <i>round decimals with two decimal places to the nearest whole number and to one decimal place</i></li> <li>- <i>read, write, order and compare numbers with up to three decimal places</i></li> <li>- <i>solve problems involving number up to three decimal places</i></li> <li>- <i>recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal</i></li> <li>- <i>solve problems which require knowing percentage and</i></li> </ul>	<p><i>numbers by 10, 100 and 1000 giving answers up to three decimal places</i></p> <ul style="list-style-type: none"> <li>- <i>multiply one-digit numbers with up to two decimal places by whole numbers</i></li> <li>- <i>use written division methods in cases where the answer has up to two decimal places</i></li> <li>- <i>solve problems which require answers to be rounded to specified degrees of accuracy</i></li> <li>- <i>recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</i></li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
					<i>decimal equivalents of: <math>\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25.</i>	
<b>Fractions, Decimals and Percentages</b>	<ul style="list-style-type: none"> <li>- Recognise, find and name a half as one of two equal parts of an object, shape or quantity</li> <li>- Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity</li> </ul>	<ul style="list-style-type: none"> <li>- Recognise, find, name and write fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math>, and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity</li> <li>- Write simple fractions e.g. <math>\frac{1}{2}</math> of <math>6 = 3</math></li> <li>- Recognise the equivalent of two quarters and one half</li> </ul>	<ul style="list-style-type: none"> <li>- Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</li> <li>- Recognise, find and write fractions of a discrete set of objects; unit fractions and non-unit fractions with small denominators</li> <li>- Recognise and use fractions as numbers; unit fractions and non-unit fractions with small denominators</li> <li>- Recognise and show, using</li> </ul>	<ul style="list-style-type: none"> <li>- Recognise and show, using diagrams, families of common equivalent fractions</li> <li>- Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten</li> <li>- Solve problems involving increasingly harder fractions to calculate quantities, including non-unit fractions where the answer is a whole number</li> <li>- Add and subtract</li> </ul>	<ul style="list-style-type: none"> <li>- Compare and order fractions whose denominators are all multiples of the same number</li> <li>- Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</li> <li>- Recognise mixed numbers and improper fractions and convert from one to the other writing mathematical statements <math>&gt;1</math> as a mixed number (e.g. <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1 \frac{1}{5}</math>)</li> <li>- Read and write</li> </ul>	<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> <li>- Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</li> <li>- Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>)</li> </ul>



Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			<p>diagrams, equivalent fractions with small denominators</p> <ul style="list-style-type: none"> <li>- Add and subtract fractions with the same denominator within one whole (e.g. <math>5/7 + 1/7 = 6/7</math>)</li> </ul> <p>Compare and order unit fractions with the same denominators</p> <p>Solve problems that involve all of the above</p>	<p>fractions with the same denominator</p> <ul style="list-style-type: none"> <li>- Recognise and write decimal equivalents of any number of tenths or hundredths</li> </ul> <p>Recognise and write decimal equivalents to <math>1/4</math>; <math>1/2</math>, <math>3/4</math></p> <ul style="list-style-type: none"> <li>- 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</li> </ul> <p>Round decimals with one decimal place to the nearest whole number</p> <ul style="list-style-type: none"> <li>- Compare numbers with the same number of decimal places up to two decimal places</li> </ul> <p>Solve simple measures and money problems involving fractions</p>	<p>decimal numbers as fractions</p> <ul style="list-style-type: none"> <li>- Add and subtract fractions with the same denominator and denominators that are multiples of the same number</li> </ul> <ul style="list-style-type: none"> <li>- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</li> </ul> <p>read and write decimal numbers as fractions (e.g. <math>0.71 = 71/100</math>)</p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place</p>	<ul style="list-style-type: none"> <li>- Divide proper fractions by whole number (e.g. <math>1/3 \div 2 = 1/6</math>)</li> <li>- Associate a fraction with division and calculate decimal equivalents (e.g. 0.375) for a simple fraction (e.g. <math>3/8</math>)</li> <li>- Identify the value of each digit in numbers given to three decimal places</li> <li>- Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</li> <li>- Multiply one-digit numbers with up to two decimal places by whole numbers</li> <li>- Use written division methods in cases where the answer has up to two decimal places</li> <li>- Solve problems</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
				and decimals to two decimal places	<ul style="list-style-type: none"> <li>- Read, write, order and compare numbers with up to 3 decimal places</li> <li>- Solve problems involving numbers up to 3 decimal places</li> <li>- Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal</li> <li>- Solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math>, <math>\frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25</li> </ul>	which require answers to be rounded to specified degrees of accuracy Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
<b>Key Vocabulary:</b> Fractions, decimals and	<ul style="list-style-type: none"> <li>• Whole</li> <li>• Half</li> </ul>	<ul style="list-style-type: none"> <li>• Three quarters</li> <li>• Third</li> </ul>	<ul style="list-style-type: none"> <li>• Tenths</li> </ul>	<ul style="list-style-type: none"> <li>• Decimal equivalent</li> </ul>	<ul style="list-style-type: none"> <li>• Fifth</li> <li>• Thousandths</li> </ul>	<i>No new vocabulary introduced.</i>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p><b>percentages</b></p> <p><i>This section identifies key vocabulary which should be introduced and explicitly taught in each year group. Language should be revisited year on year, retrieved regularly and pupils understanding of these key words should be checked often.</i></p>	<ul style="list-style-type: none"> <li>• Quarter</li> <li>• Equal parts</li> </ul>	<ul style="list-style-type: none"> <li>• Equivalent fractions</li> <li>• Unit fractions</li> <li>• Non unit fractions</li> <li>• Numerator</li> <li>• Denominator</li> <li>• One whole</li> </ul>		<ul style="list-style-type: none"> <li>• Hundredths</li> <li>• Convert</li> <li>• Proper fractions</li> <li>• Improper fractions</li> <li>• Decimal point</li> </ul>	<ul style="list-style-type: none"> <li>• Mixed numbers</li> <li>• Per cent %</li> <li>• Factors</li> <li>• Integer</li> <li>• Complements</li> </ul>	
<p><b>Knowledge:</b> (National Curriculum Coverage – Statutory Requirements)</p> <p><b>Ratio and Proportion</b></p>						<p><u>Ratio and proportion:</u> Pupils should be taught to:</p> <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 the calculation of percentages [for example, of measures, and such as 15% of 360] and the use</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						<i>of percentages for comparison</i> - <i>solve problems involving similar shapes where the scale factor is known or can be found</i> - <i>solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</i>
<b>Ratio and Proportion</b>						- Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Solve problems involving the calculation of percentages (e.g. of measures, and such as 15% of 360) and the use of percentages for comparison

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						<ul style="list-style-type: none"> <li>- Solve problems involving similar shapes where the scale factor is known or can be found</li> <li>- Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</li> </ul>
<b>Key Vocabulary: Ratio and Proportion</b>  <i>This section identifies key vocabulary which should be introduced and explicitly taught in each year group. Language should be revisited year on year, retrieved regularly and pupils understanding of these key words should be checked often.</i>	N/A	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> <li>• Relative size</li> <li>• Missing values</li> <li>• Integer multiplication</li> <li>• Percentages</li> <li>• Scale factor</li> <li>• Unequal sharing and grouping</li> </ul>
<b>Knowledge:</b> <i>(National Curriculum Coverage – Statutory Requirements)</i>						<u>Algebra:</u> <i>Pupils should be taught to:</i> <ul style="list-style-type: none"> <li>- use simple formulae</li> <li>- generate and describe linear</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Algebra</b>						<i>number sequences</i> - <i>express missing number problems algebraically</i> - <i>find pairs of numbers that satisfy an equation with two unknowns</i> - <i>enumerate possibilities of combinations of two variables.</i>
<b>Algebra</b>	<u>'Missing Number' objectives:</u> - Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \_ - 9$	<u>'Missing Number' objectives:</u> - Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	<u>'Missing Number' objectives:</u> - Solve problems, including missing number problems			- 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
<b>Key Vocabulary: Algebra</b>	N/A	N/A	N/A	N/A	N/A	<ul style="list-style-type: none"> <li>Formulae</li> <li>Linear number sequences</li> </ul>

Skills	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<i>This section identifies key vocabulary which should be introduced and explicitly taught in each year group. Language should be revisited year on year, retrieved regularly and pupils understanding of these key words should be checked often.</i>						<ul style="list-style-type: none"><li>• Algebraically</li><li>• Equation</li><li>• Unknowns</li><li>• Combinations</li><li>• variables</li></ul>

<p><b>Knowledge:</b> (National Curriculum Coverage – Statutory Requirements)</p> <p><b>Measurement</b></p>	<p><u>Measurement:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- compare, describe and solve practical problems for:</li> <li>- lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]</li> <li>- mass/weight [for example, heavy/light, heavier than, lighter than]</li> <li>- capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]</li> <li>- time [for example, quicker, slower, earlier, later]</li> <li>- measure and begin to record the following:</li> <li>- lengths and heights</li> <li>- mass/weight</li> <li>- capacity and volume</li> </ul>	<p><u>Measurement:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li>- compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =</li> <li>- recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</li> <li>- find different combinations of coins that equal the same amounts</li> </ul>	<p><u>Measurement:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</li> <li>- measure the perimeter of simple 2-D shapes</li> <li>- add and subtract amounts of money to give change, using both £ and p in practical contexts</li> <li>- tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</li> <li>- estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and</li> </ul>	<p><u>Measurement:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- convert between different units of measure [for example, kilometre to metre; hour to minute]</li> <li>- measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> <li>- find the area of rectilinear shapes by counting squares</li> <li>- estimate, compare and calculate different measures, including money in pounds and pence</li> <li>- read, write and convert time between analogue and digital 12- and 24-hour clocks</li> <li>- solve problems involving converting from hours to minutes;</li> </ul>	<p><u>Measurement:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>- convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</li> <li>- understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</li> <li>- measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</li> <li>- calculate and compare the area of rectangles (including squares), and including using standard units,</li> </ul>	<p><u>Measurement:</u> Pupils should be taught to:</p> <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> <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> <li>- convert between miles and kilometres</li> <li>- recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>- recognise when it</li> </ul>
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	<ul style="list-style-type: none"> <li>- time (hours, minutes, seconds)</li> <li>- recognise and know the value of different denominations of coins and notes</li> <li>- sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]</li> <li>- recognise and use language relating to dates, including days of the week, weeks, months and years</li> <li>- tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.</li> </ul>	<ul style="list-style-type: none"> <li>- of money</li> <li>- solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</li> <li>- compare and sequence intervals of time</li> <li>- tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times</li> <li>- know the number of minutes in an hour and the number of hours in a day.</li> </ul>	<ul style="list-style-type: none"> <li>- hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight</li> <li>- know the number of seconds in a minute and the number of days in each month, year and leap year</li> <li>- compare durations of events [for example to calculate the time taken by particular events or tasks].</li> </ul>	<ul style="list-style-type: none"> <li>- minutes to seconds; years to months; weeks to days</li> </ul>	<ul style="list-style-type: none"> <li>- square centimetres (<math>\text{cm}^2</math>) and square metres (<math>\text{m}^2</math>) and estimate the area of irregular shapes</li> <li>- estimate volume [for example, using <math>1 \text{ cm}^3</math> blocks to build cuboids (including cubes)] and capacity [for example, using water]</li> <li>- solve problems involving converting between units of time</li> <li>- use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</li> </ul>	<ul style="list-style-type: none"> <li>- is possible to use formulae for area and volume of shapes</li> <li>- calculate the area of parallelograms and triangles</li> <li>- calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (<math>\text{cm}^3</math>) and cubic metres (<math>\text{m}^3</math>), and extending to other units [for example, <math>\text{mm}^3</math> and <math>\text{km}^3</math>].</li> </ul>
<b>Measurement</b>	<ul style="list-style-type: none"> <li>- Compare, describe and solve practical problems for:</li> <li>- Lengths and</li> </ul>	<ul style="list-style-type: none"> <li>- Choose and use appropriate standard units to estimate and</li> </ul>	<ul style="list-style-type: none"> <li>- Measure, compare, add and subtract: lengths (m/cm/mm); mass</li> </ul>	<ul style="list-style-type: none"> <li>- Convert between different units of measure (e.g. kilometre to</li> </ul>	<ul style="list-style-type: none"> <li>- Convert between different units of measure (e.g. kilometre and</li> </ul>	<ul style="list-style-type: none"> <li>- Solve problems involving the calculation and conversion of units</li> </ul>

	<p>heights (e.g. long/short, longer/shorter, tall/short, double/half)</p> <ul style="list-style-type: none"> <li>- Mass or weight (e.g. heavy/light, heavier than, lighter than)</li> <li>- Capacity/volume (e.g. full/empty, more than, less than, half, half full, quarter)</li> <li>- Time (e.g. quicker, slower, earlier, later)</li> <li>- Measure and begin to record the following:</li> <li>- Lengths and heights</li> <li>- Mass/weight</li> <li>- Capacity and volume</li> <li>- Time (hours, minutes, seconds)</li> <li>- Recognise and know the value of different denominations of coins and notes</li> <li>- Sequence events in chronological order using language (e.g. before, after, next,</li> </ul>	<p>measure:</p> <ul style="list-style-type: none"> <li>- length/height in any direction (m/cm);</li> <li>- mass (kg/g);</li> <li>- temperature (°C);</li> <li>- capacity (litres/ml) to the nearest appropriate unit, using rulers, scales,</li> <li>- thermometers and measuring vessels</li> <li>- Compare and order lengths, mass, volume/ capacity and record the results using &lt;, &gt; and =</li> <li>- Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</li> <li>- Find different combinations of coins that equal the same amounts of money</li> <li>- Solve simple problems in a practical context involving addition and subtraction of money of the</li> </ul>	<p>(kg/g); volume/capacity (l/ml)</p> <ul style="list-style-type: none"> <li>- Measure the perimeter of simple 2-D shapes</li> <li>- Add and subtract amounts of money giving change, using both £ and p in practical contexts</li> <li>- Tell and write the time from an analogue clock, including using Roman numerals from 1 to X11, and 12 hour and 24 hour clocks</li> <li>- Estimate and read time to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as am/pm, morning, afternoon, noon and midnight</li> <li>- Know the number of seconds in a minute and the number of days in</li> </ul>	<p>metre; hour to minute) Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</p> <ul style="list-style-type: none"> <li>- Find the area of rectilinear shapes by counting</li> <li>- Estimate, compare and calculate different measures, including money in pounds and pence</li> <li>- Read, write and convert time between analogue and digital 12 and 24-hour clocks</li> <li>- Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days</li> </ul>	<p>metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p> <ul style="list-style-type: none"> <li>- Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</li> <li>- Measure and calculate the perimeter composite rectilinear shapes in centimetres and metres</li> <li>- Calculate and compare the area of rectangles (including squares) and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes</li> <li>- estimate volume (e.g. using 1 cm<sup>3</sup> blocks to build</li> </ul>	<p>of measure, using decimal notation up to three decimal places where appropriate</p> <p>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 three decimal places</p> <ul style="list-style-type: none"> <li>- Convert between miles and kilometres</li> <li>- Recognise that shapes with the same areas can have different perimeters and vice versa</li> <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>
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	<p>first, today, tomorrow, morning, afternoon and evening)</p> <p>Recognise and use the language relating to dates, including days of the week, weeks, months and years</p> <ul style="list-style-type: none"> <li>- Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.</li> </ul>	<p>same unit, including giving change Compare and sequence intervals of time</p> <ul style="list-style-type: none"> <li>- Tell and write time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times Know the number of minutes in an hour and the number of hours in a day</li> </ul>	<p>each month, year and leap year Compare durations of events, for example to calculate the time taken by particular events or tasks.</p> <ul style="list-style-type: none"> <li>- Measure the perimeter of simple 2-D shapes</li> </ul>		<p>cuboids (including cubes)) and capacity (e.g. using water)</p> <ul style="list-style-type: none"> <li>- Solve problems involving converting between units of time Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling</li> </ul>	<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 (e.g. mm<sup>3</sup> and km<sup>3</sup>)</li> </ul>
<p><b>Key Vocabulary: Measurement</b></p> <p><i>This section identifies key vocabulary which should be introduced and explicitly taught in each year group. Language should be revisited year on year, retrieved regularly and pupils understanding of these key words should be checked often.</i></p>	<p><u>Measure and Length:</u></p> <ul style="list-style-type: none"> <li>• Compare</li> </ul> <p><u>Height, weight and Capacity:</u></p> <ul style="list-style-type: none"> <li>• Mass</li> <li>• Volume</li> </ul> <p><u>Time:</u></p> <ul style="list-style-type: none"> <li>• Chronological order</li> <li>• Days of the week</li> <li>• Months of the year</li> <li>• Month</li> <li>• Year</li> <li>• O'clock</li> <li>• Half past</li> <li>• Second</li> </ul>	<p><u>Measure and Length:</u></p> <ul style="list-style-type: none"> <li>• Standard unit</li> <li>• Estimate</li> <li>• Order</li> <li>• Record results</li> <li>• Centimetre (cm)</li> <li>• Metre (m)</li> </ul> <p><u>Height, weight and Capacity:</u></p> <ul style="list-style-type: none"> <li>• Kilogram (kg)</li> <li>• Gram (g)</li> <li>• Quarter full</li> <li>• Three quarters full</li> <li>• Litres (l)</li> <li>• Millilitres (ml)</li> <li>• Temperature</li> <li>• Celsius</li> </ul>	<p><u>Measure and Length:</u></p> <ul style="list-style-type: none"> <li>• Millimetre (mm)</li> <li>• Perimeter</li> </ul> <p><u>Height, weight and Capacity:</u></p> <p>N/A</p> <p><u>Time:</u></p> <ul style="list-style-type: none"> <li>• Analogue clock</li> <li>• Roman numerals</li> <li>• 12-hour clock</li> <li>• 24-hour clock</li> <li>• a.m and p.m</li> <li>• Noon</li> <li>• Midnight</li> <li>• Leap year</li> <li>• Digital</li> </ul>	<p><u>Measure and Length:</u></p> <ul style="list-style-type: none"> <li>• Kilometres (km)</li> <li>• Rectilinear figure</li> <li>• Area</li> </ul> <p><u>Height, weight and Capacity:</u></p> <p>N/A</p> <p><u>Time:</u></p> <ul style="list-style-type: none"> <li>• Convert</li> </ul> <p><u>Money:</u></p> <p>N/A</p>	<p><u>Measure and Length:</u></p> <ul style="list-style-type: none"> <li>• Decimal notation</li> <li>• Scaling</li> <li>• Metric units</li> <li>• Imperial units</li> <li>• Inches</li> <li>• Compound shape</li> <li>• Irregular shapes</li> <li>• Square centimetres</li> <li>• Square metres</li> </ul> <p><u>Height, weight and Capacity:</u></p> <ul style="list-style-type: none"> <li>• Cubic centimetre</li> <li>• Pounds</li> <li>• Pints</li> </ul>	<p><u>Measure and Length:</u></p> <ul style="list-style-type: none"> <li>• Conversion</li> <li>• Miles</li> <li>• Formulae</li> <li>• Parallelograms</li> <li>• Triangles</li> <li>• Feet</li> </ul> <p><u>Height, weight and Capacity:</u></p> <ul style="list-style-type: none"> <li>• Cubic metre</li> <li>• Cubic millimetre</li> <li>• Cubic kilometre</li> <li>• Gallons</li> <li>• Stones</li> <li>• Ounces</li> </ul> <p><u>Time:</u></p>

	<u>Money:</u> <ul style="list-style-type: none"> <li>• Money</li> <li>• Coins</li> <li>• Notes</li> <li>• Pounds( £)</li> <li>• Pence (p)</li> </ul>	<u>Time:</u> <ul style="list-style-type: none"> <li>• Intervals of time</li> <li>• Quarter past/to</li> <li>• Duration</li> </ul> <u>Money:</u> <ul style="list-style-type: none"> <li>• Value</li> <li>• Change</li> </ul>	<u>Money:</u> N/A		<u>Time:</u> N/A  <u>Money:</u> N/A	N/A  <u>Money:</u> N/A
<b>Knowledge:</b> (National Curriculum Coverage – Statutory Requirements)  <b>Geometry (properties of shape)</b>	<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- recognise and name common 2-D and 3-D shapes, including:</li> <li>- 2-D shapes [for example, rectangles (including squares), circles and triangles]</li> <li>- 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].</li> </ul>	<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</li> <li>- identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</li> <li>- identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</li> <li>- compare and sort</li> </ul>	<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</li> <li>- recognise angles as a property of shape or a description of a turn</li> <li>- identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn;</li> </ul>	<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>- identify acute and obtuse angles and compare and order angles up to two right angles by size</li> <li>- identify lines of symmetry in 2-D shapes presented in different orientations</li> <li>- complete a simple symmetric figure with respect to a specific line of symmetry.</li> </ul>	<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- identify 3-D shapes, including cubes and other cuboids, from 2-D representations</li> <li>- know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li> <li>- draw given angles, and measure them in degrees (°)</li> <li>- identify:               <ul style="list-style-type: none"> <li>*angles at a point and one whole turn (total 360°)</li> <li>*angles at a point on a straight line and 2 1 a turn (total 180°)</li> <li>*other multiples of</li> </ul> </li> </ul>	<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>- draw 2-D shapes using given dimensions and angles</li> <li>- recognise, describe and build simple 3-D shapes, including making nets</li> <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>- illustrate and name parts of circles, including radius, diameter and circumference</li> </ul>

		common 2-D and 3-D shapes and everyday objects.	identify whether angles are greater than or less than a right angle - identify horizontal and vertical lines and pairs of perpendicular and parallel lines.		$90^\circ$ - use the properties of rectangles to deduce related facts and find missing lengths and angles - distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	and know that the diameter is twice the radius - recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
<b>Knowledge:</b> (National Curriculum Coverage – Statutory Requirements)  <b>Geometry (position and direction)</b>	<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>describe position, direction and movement, including whole, half, quarter and threequarter turns.</li> </ul>	<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>order and arrange combinations of mathematical objects in patterns and sequences</li> <li>use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-</li> </ul>		<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>describe positions on a 2-D grid as coordinates in the first quadrant</li> <li>describe movements between positions as translations of a given unit to the left/right and up/down</li> <li>plot specified points and draw sides to complete a given polygon.</li> </ul>	<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</li> </ul>	<u>Geometry:</u> Pupils should be taught to: <ul style="list-style-type: none"> <li>describe positions on the full coordinate grid (all four quadrants)</li> <li>draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</li> </ul>

		<i>quarter turns (clockwise and anti-clockwise).</i>				
<b>Geometry: shape, position and direction</b>	<ul style="list-style-type: none"> <li>Recognise and name common 2-D and 3-D shapes, including:</li> <li>2-D shapes (e.g. rectangles including squares), circles and triangles)</li> <li>3-D shapes (e.g. cuboids (including cubes), pyramids and spheres)</li> <li>Describe position, directions and movements, including half, quarter and three-quarter turns</li> </ul>	<ul style="list-style-type: none"> <li>Identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line</li> <li>Recognise and name common 3-D shapes (for example, cuboids (including cubes) pyramids and spheres) Identify 2-D shapes on the surface of 3-D shapes, for example a circle on a cylinder and a triangle on a pyramid Compare and sort common 2-D and 3-D shapes and everyday objects</li> <li>Order and arrange combinations of mathematical objects in patterns</li> <li>Use mathematical vocabulary to describe position,</li> </ul>	<ul style="list-style-type: none"> <li>Draw 2-D shapes</li> <li>Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations; and describe them with increasing accuracy Recognise angles as a property of shape and associate angles with turning</li> <li>Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle</li> <li>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines</li> </ul>	<ul style="list-style-type: none"> <li>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>Identify acute and obtuse angles and compare and order angles up to two right angles by size</li> <li>Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry</li> <li>Describe positions on a 2-D grid as coordinates in the first quadrant</li> <li>Describe movement between positions as translations of a given unit to the left/right and</li> </ul>	<ul style="list-style-type: none"> <li>Identify 3-D shapes, including cubes and cuboids, from 2-D representations</li> <li>Know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles</li> <li>Draw given angles, measuring them in degrees (°)</li> <li>Identify:</li> <li>angles at a point and one whole turn (total 360°)</li> <li>angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total 180°)</li> <li>other multiples of 90°</li> <li>Use the properties of a rectangle to deduce related facts and find missing lengths and angles</li> <li>Distinguish between regular and irregular</li> </ul>	<ul style="list-style-type: none"> <li>Draw 2D shapes using given dimensions and angles</li> <li>Recognise , describe and build simple 3-D shapes, including making nets</li> <li>Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</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>

		direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise/anti-clockwise)		<ul style="list-style-type: none"> <li>up/down</li> <li>Plot specified points and draw sides to complete a given polygon</li> </ul>	polygons based on reasoning about equal sides and angles <ul style="list-style-type: none"> <li>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed</li> </ul>	<ul style="list-style-type: none"> <li>Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in</li> <li>axes</li> </ul>
<p><b>Key Vocabulary: Geometry</b></p> <p><i>This section identifies key vocabulary which should be introduced and explicitly taught in each year group. Language should be revisited year on year, retrieved regularly and pupils understanding of these key words should be checked often.</i></p>	<p><u>Geometry - Properties of Shape:</u></p> <ul style="list-style-type: none"> <li>Sides</li> <li>Corners</li> <li>Properties</li> <li>Pyramids</li> <li>Faces</li> </ul> <p><u>Geometry – Position and Direction:</u></p> <ul style="list-style-type: none"> <li>Position</li> <li>Direction</li> <li>Movement</li> <li>Whole turn</li> <li>Quarter turn</li> <li>Half turn</li> <li>Three-quarter turn</li> </ul>	<p><u>Geometry - Properties of Shape:</u></p> <ul style="list-style-type: none"> <li>Pentagon</li> <li>Hexagon</li> <li>Line of symmetry</li> <li>Properties</li> <li>Cylinder</li> <li>Edges</li> <li>Vertices</li> <li>Vertex</li> </ul> <p><u>Geometry – Position and Direction:</u></p> <ul style="list-style-type: none"> <li>Clockwise/anti-clockwise</li> <li>Straight line</li> <li>Rotation</li> <li>Arrange</li> <li>Sequences</li> </ul>	<p><u>Geometry - Properties of Shape:</u></p> <ul style="list-style-type: none"> <li>Right-angled triangle</li> <li>Heptagon</li> <li>Octagon</li> <li>Polygon</li> <li>Properties</li> <li>Prism</li> <li>Orientations</li> <li>Angles</li> <li>Acute angle</li> <li>Obtuse angle</li> <li>Turn</li> <li>Right angles</li> <li>Half turn</li> <li>Three quarters of a turn</li> <li>Greater than a right angle</li> <li>Less than a right</li> </ul>	<p><u>Geometry - Properties of Shape:</u></p> <ul style="list-style-type: none"> <li>Isosceles</li> <li>Equilateral</li> <li>Scalene</li> <li>Trapezium</li> <li>Rhombus</li> <li>Parallelogram</li> <li>Kite</li> <li>Geometric shapes</li> <li>Quadrilaterals</li> </ul> <p><u>Geometry – Position and Direction:</u></p> <ul style="list-style-type: none"> <li>Co-ordinates</li> <li>First quadrant</li> <li>Grid</li> <li>Translation</li> <li>Plot</li> <li>Polygon</li> <li>Axis</li> </ul>	<p><u>Geometry - Properties of Shape:</u></p> <ul style="list-style-type: none"> <li>Regular polygon</li> <li>Irregular polygon</li> <li>Reflex angle</li> <li>Degrees</li> <li>One whole turn</li> <li>Angles on a straight line</li> <li>Angles around a point</li> <li>Vertically opposite</li> <li>Missing angles</li> </ul> <p><u>Geometry – Position and Direction:</u></p> <ul style="list-style-type: none"> <li>Reflection</li> </ul>	<p><u>Geometry - Properties of Shape:</u></p> <ul style="list-style-type: none"> <li>Radius</li> <li>Diameter</li> <li>Circumference</li> <li>Dimensions</li> </ul> <p><u>Geometry – Position and Direction:</u></p> <ul style="list-style-type: none"> <li>Four quadrants</li> <li>Co-ordinate plane</li> </ul>

			<p>angle</p> <ul style="list-style-type: none"> <li>Horizontal lines</li> <li>Vertical lines</li> <li>Perpendicular lines</li> <li>Parallel lines</li> </ul> <p><u>Geometry – Position and Direction:</u> N/A</p>			
<p><b>Knowledge:</b> (National Curriculum Coverage – Statutory Requirements)</p> <p><b>Statistics</b></p>		<p><u>Statistics:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>interpret and construct simple pictograms, tally charts, block diagrams and simple tables</li> <li>ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</li> <li>ask and answer questions about totalling and comparing categorical data.</li> </ul>	<p><u>Statistics:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>interpret and present data using bar charts, pictograms and tables</li> <li>solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.</li> </ul>	<p><u>Statistics:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</li> <li>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</li> </ul>	<p><u>Statistics:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>solve comparison, sum and difference problems using information presented in a line graph</li> <li>complete, read and interpret information in tables, including timetables.</li> </ul>	<p><u>Statistics:</u> Pupils should be taught to:</p> <ul style="list-style-type: none"> <li>interpret and construct pie charts and line graphs and use these to solve problems</li> <li>calculate and interpret the mean as an average.</li> </ul>
<b>Statistics</b>		<ul style="list-style-type: none"> <li>Interpret and construct simple pictograms, tally charts, block diagrams and</li> </ul>	<ul style="list-style-type: none"> <li>Interpret and present data using bar charts, pictograms and tables Solve one-</li> </ul>	<ul style="list-style-type: none"> <li>Interpret and present discrete and continuous data using appropriate</li> </ul>	<ul style="list-style-type: none"> <li>Solve comparison, sum and difference problems using information</li> </ul>	<ul style="list-style-type: none"> <li>Interpret and construct pie charts and line graphs and use these to solve</li> </ul>



		<ul style="list-style-type: none"> <li>simple tables</li> <li>- Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</li> <li>- Ask and answer questions about totalling and compare categorical data</li> </ul>	<p>step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables</p>	<p>graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graph</p>	<p>presented in a line graph Complete, read and interpret information in tables, including timetables</p>	<ul style="list-style-type: none"> <li>problems</li> <li>- Calculate and interpret the mean as an average</li> </ul>
<p><b>Key Vocabulary: Statistics</b></p> <p><i>This section identifies key vocabulary which should be introduced and explicitly taught in each year group. Language should be revisited year on year, retrieved regularly and pupils understanding of these key words should be checked often.</i></p>	N/A	<p><u>Statistics:</u></p> <ul style="list-style-type: none"> <li>• Pictograms</li> <li>• Tally chart</li> <li>• Block diagram</li> <li>• Category</li> <li>• Sorting</li> <li>• Totalling</li> <li>• Comparing</li> <li>• Horizontal</li> <li>• Vertical</li> </ul>	<p><u>Statistics:</u></p> <ul style="list-style-type: none"> <li>• Table</li> <li>• Bar chart</li> <li>• One-step problem</li> <li>• Two-step problem</li> </ul>	<p><u>Statistics:</u></p> <ul style="list-style-type: none"> <li>• Time graph</li> <li>• Discrete data</li> <li>• Continuous data</li> <li>• Line graph</li> <li>• Comparison problem</li> <li>• Sum problem</li> <li>• Difference problem</li> <li>• Calculate</li> <li>• Interpret</li> </ul>	<p><u>Statistics:</u></p> <ul style="list-style-type: none"> <li>• Timetable</li> <li>• Two-way tables</li> </ul>	<p><u>Statistics:</u></p> <ul style="list-style-type: none"> <li>• Pie chart</li> <li>• Mean</li> </ul>