

**Blue font in Spring/Summer indicates previously untaught objective**

**Green font indicates cross-curricular links**

Autumn 1		
My Health Life		
Number and Place Value Weeks 1 -2	Addition and Subtraction Weeks 3 -4	Measurement Weeks 5-6
<ul style="list-style-type: none"> <li>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward e.g. 65, 60, 55, 50, 45, 40.....</li> <li>recognise the place value of each digit in a two-digit number (tens, ones)</li> <li>identify, represent and estimate numbers using</li> <li>different representations, including the number line</li> <li>compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs</li> </ul>	<ul style="list-style-type: none"> <li>solve problems with addition and subtraction: -using concrete objects and pictorial representations, including those involving numbers, quantities and measures -applying their increasing knowledge of mental and written methods</li> <li>recall and use addition and subtraction facts to 20 fluently (<math>19 - 7 = 12</math>), and derive and use related facts up to 100 (<math>30 = 90 - 60</math>)</li> <li>add and subtract numbers using concrete objects, pictorial</li> </ul>	<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 (<math>^{\circ}\text{C}</math>); 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> </ul>
<b>Geometry and Position &amp; Direction Week 7</b>		

<ul style="list-style-type: none"> <li>read and write numbers to at least 100 in numerals and in words e.g. forty</li> <li>use place value and number facts to solve problems</li> </ul>	<p>representations, and mentally, including:</p> <ul style="list-style-type: none"> <li>- a two-digit number and ones <math>13 + 4 = 17</math></li> <li>- a two-digit number and tens <math>23 + 20 = 43</math> or two two-digit numbers <math>24 + 12 = 36</math></li> <li>- adding three one-digit numbers <math>4 + 3 + 6 = 13</math></li> <li>show that addition of two numbers can be done in any order (commutative, e.g. <math>3 + 4 = 7</math>, <math>4 + 3 = 7</math>) and subtraction of one number from another cannot</li> <li>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems e.g. <math>\Delta - 14 = 28</math></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>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, e.g. a circle on a cylinder and a triangle on a pyramid</li> <li>compare and sort common 2-D and 3-D shapes and everyday objects</li> </ul>
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Autumn 2			
Great Fire of London			
Multiplication and Division Weeks 6-7 8-9	Fractions Weeks 7-8 10-11	Measurement Weeks 9-10 12-13	Statistics Weeks 11-12 14-15
<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 e.g. <math>22 \div 2 = 11</math></li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (<math>=</math>) signs</li> </ul>	<ul style="list-style-type: none"> <li>recognise, find, name and write fractions <math>1/3</math>, <math>1/4</math>, <math>2/4</math> and <math>3/4</math> of a length, shape, set of objects or quantity e.g. <math>1/3</math> of <math>30\text{cm} = 10\text{cm}</math></li> <li>write simple fractions e.g. <math>1/2</math> of <math>6 = 3</math> and recognise the equivalence of <math>2/4</math> and <math>1/2</math>.</li> </ul>	<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 (<math>^{\circ}\text{C}</math>); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li>recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value e.g. find different ways to make <math>50\text{p}</math>, pupils can</li> </ul>	<ul style="list-style-type: none"> <li>SCIENCE LINK: To be able to compare and group together a variety of every-day materials on the basis of their simple physical properties. PSHE LINK: LO: To learn about ways of being physically active throughout the day.</li> <li>interpret and construct simple pictograms (e.g. where the symbol represents 2, 5 or 10 units), tally charts, block diagrams and simple tables</li> <li>SCIENCE LINK: To be able to identify and name a variety of plants and animals in their habitats (including microhabitats).</li> </ul>

<ul style="list-style-type: none"> <li>show that multiplication of two numbers can be done in any order (commutative, e.g. <math>5 \times 3 = 15</math>, <math>3 \times 5 = 15</math>) 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 e.g. share 18 counters between 3 children</li> </ul>		<ul style="list-style-type: none"> <li>work out how many £2 coins are needed to exchange for a £20 note</li> <li>find different combinations of coins that equal the same amounts of money e.g. how many different ways can you make 30p?</li> <li>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change e.g. I buy a toy for £14; how much change do I get from £20?</li> </ul>	<ul style="list-style-type: none"> <li>interpret and construct simple pictograms (e.g. where the symbol represents 2, 5 or 10 units), tally charts, block diagrams and simple tables</li> <li>ask and answer simple questions by counting the number of objects in each</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>
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Spring 1				
Africa				
Number and Place Value Weeks 1	Addition and Subtraction Week 2 -3	Multiplication and Division Week 3-4	Fractions Week 5	Measurement Week 6
<ul style="list-style-type: none"> <li>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward e.g. 36, 33, 30, 27....</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> </ul>	<ul style="list-style-type: none"> <li>solve problems with addition and subtraction: <ul style="list-style-type: none"> <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> </ul> </li> <li>recall and use addition and subtraction facts to 20 fluently (<math>19 - 7 = 12</math>), and derive and use related facts up to 100 (<math>30 = 90 - 60</math>)</li> </ul>	<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 e.g. circle the odd numbers</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (<math>=</math>) signs</li> <li>show that multiplication of two numbers can be done in any order (commutative, e.g. <math>5 \times 3 = 15</math>, <math>3 \times 5 = 15</math>)</li> </ul>	<ul style="list-style-type: none"> <li>recognise, find, name and write fractions <math>1/3</math>, <math>1/4</math>, <math>2/4</math> and <math>3/4</math> of a length, shape, set of objects or quantity e.g. how long is <math>1/3</math> of a ribbon which is 60 cm long? There are 20 sweets. Jon is given <math>1/3</math> and Amy is given <math>1/2</math>. Who is given the most sweets?</li> <li>write simple fractions e.g. <math>1/2</math> of 6 = 3 and recognise the equivalence of <math>2/4</math> and <math>1/2</math>.</li> </ul>	<ul style="list-style-type: none"> <li>choose and use appropriate standard units to estimate and measure temperature (<math>^{\circ}\text{C}</math>); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li><a href="#">compare and sequence intervals of time</a></li> <li><a href="#">tell and write the time to five minutes, including quarter past/to the hour and draw the</a></li> </ul>

<ul style="list-style-type: none"> <li>read and write numbers to at least 100 in numerals and in words e.g. forty-five</li> <li>use place value and number facts to solve problems</li> </ul>	<ul style="list-style-type: none"> <li>add and subtract numbers using concrete objects, pictorial representations, and mentally, including:             <ul style="list-style-type: none"> <li>- a two-digit number and ones <math>27 + 4</math></li> <li>- a two-digit number and tens <math>23 + 30</math></li> <li>- two two-digit numbers <math>34 + 29</math></li> <li>- adding three one-digit numbers <math>7 + 5 + 3</math></li> </ul> </li> <li>show that addition of two numbers can be done in any order (commutative, e.g. <math>3 + 4 = 7, 4 + 3 = 7</math>) and subtraction of one number from another cannot</li> <li>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems e.g. <math>\Delta - 14 = 28</math></li> </ul>	<p>done in any order (commutative, e.g. <math>5 \times 3 = 15, 3 \times 5 = 15</math>) and division of one number by another cannot</p> <ul style="list-style-type: none"> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts e.g. share 18 counters between 3 children</li> </ul>		<ul style="list-style-type: none"> <li>choose and use appropriate standard units to estimate and measure temperature (<math>^{\circ}\text{C}</math>)</li> <li>recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value e.g. make 73p using the fewest coins</li> <li>find different combinations of coins that equal the same amounts of money e.g. find different ways to make 50p, pupils can work out how many hands on a clock face to show these times.</li> <li>know the number of minutes in an hour and hours in a day</li> </ul>
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Spring 2				
Bears				
Geometry Week 7-8	Addition and Subtraction Week 9	Multiplication and Division Weeks 10-11	Fractions Weeks 12	
<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>identify and describe the properties of 3-D shapes,</li> </ul>	<ul style="list-style-type: none"> <li>solve problems with addition and subtraction:             <ul style="list-style-type: none"> <li>o using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>o applying their</li> </ul> </li> </ul>	<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 e.g. circle the odd numbers</li> <li>calculate mathematical statements for multiplication and division within</li> </ul>	<ul style="list-style-type: none"> <li>recognise, find, name and write fractions <math>1/3, 1/4, 2/4</math> and <math>3/4</math> of a length, shape, set of objects or quantity e.g. how long is <math>1/3</math> of a ribbon which is 60 cm long? There are 20 sweets. Jon is given <math>1/3</math> and Amy is</li> </ul>	

<p>including the number of edges, vertices and faces</p> <ul style="list-style-type: none"> <li>identify 2-D shapes on the surface of 3-D shapes e.g. a circle on a cylinder and a triangle on a pyramid</li> <li>compare and sort common 2-D and 3-D shapes and everyday objects e.g. sort 3-D shapes in different ways such as whether they are prisms, whether they have more than 8 edges...; sort 2-D shapes in different ways such as whether they are quadrilaterals and have line symmetry....</li> <li>order and arrange combinations of mathematical objects in patterns</li> </ul> <p><b>GEOGRAPHY LINK:</b> To be able to directional and locational language to describe and locate bear habitats on a map. To design a map of our local area</p> <ul style="list-style-type: none"> <li>use mathematical vocabulary to describe position, direction and movement including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise), and movement in a straight line e.g. pupils themselves moving in turns, giving instructions to other pupils to do so, and programming robots using</li> </ul>	<ul style="list-style-type: none"> <li>increasing knowledge of mental and written methods recall and use addition and subtraction facts to 20 fluently (<math>19 - 7 = 12</math>), and derive and use related facts up to 100 (<math>30 = 90 - 60</math>)</li> <li>add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> <li>- a two-digit number and ones <math>27 + 4</math></li> <li>- a two-digit number and tens <math>23 + 30</math></li> <li>- two two-digit numbers <math>34 + 29</math> o adding three one-digit numbers <math>7 + 5 + 3</math></li> </ul> </li> <li>show that addition of two numbers can be done in any order (commutative, e.g. <math>3 + 4 = 7</math>, <math>4 + 3 = 7</math>) and subtraction of one number from another cannot</li> <li>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems e.g. <math>\Delta - 14 = 28</math></li> </ul>	<ul style="list-style-type: none"> <li>the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</li> <li>show that multiplication of two numbers can be done in any order (commutative, e.g. <math>5 \times 3 = 15</math>, <math>3 \times 5 = 15</math>) 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 e.g. share 18 counters between 3 children</li> </ul>	<ul style="list-style-type: none"> <li>given <math>\frac{1}{2}</math>. Who is given the most sweets?</li> <li>write simple fractions e.g. <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>
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instructions given in right angles			
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Summer 1				
Environmental Activists				
Number and Place Value Week 1	Addition and Subtraction Weeks 2-3	Measurement Week 4	Statistics Week 5	Number and Place Value Week 6
<ul style="list-style-type: none"> <li>add and subtract numbers using concrete objects, pictorial representations, and mentally, including:           <ul style="list-style-type: none"> <li>o a two-digit number and ones <math>87 - 9 =</math></li> <li>o a two-digit number and tens e.g. <math>76 + 30</math></li> <li>o two two-digit numbers e.g. <math>63 - 29</math></li> <li>o adding three one-digit numbers e.g. <math>9 + 7 + 9</math></li> </ul> </li> <li>• recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</li> </ul>		<ul style="list-style-type: none"> <li>choose and use appropriate standard units to estimate and measure temperature (<math>^{\circ}\text{C}</math>)</li> <li>recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value e.g. make 73p using the fewest coins</li> <li>find different combinations of coins that equal the same amounts of money e.g. find different ways to make 50p, pupils can work out how many £2 coins are needed to exchange for a £20 note</li> <li>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change e.g. I buy</li> </ul>	<ul style="list-style-type: none"> <li><b>SCIENCE LINK:</b> To be able to identify and name a variety of plants and animals in their habitats (including microhabitats).</li> <li>interpret and construct simple pictograms (e.g. where the symbol represents 2, 5 or 10 units), 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>	<ul style="list-style-type: none"> <li>•</li> </ul>

		<p>a cake for 60p and a biscuit for 25p, how much change will I get from £1?</p> <ul style="list-style-type: none"> <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> </ul>		
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## Summer 2

The Blitz				
Addition and Subtraction Week 7	Measurement Week 8	Multiplication and Division Week 9	Fractions Week 10	Weeks 11-12 Working towards expectations for Y4
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