

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"> 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..... recognise the place value of each digit in a two-digit number (tens, ones) identify, represent and estimate numbers using different representations, including the number line compare and order numbers from 0 up to 100; use <, > and = signs 	<ul style="list-style-type: none"> solve problems with addition and subtraction: <ul style="list-style-type: none"> -using concrete objects and pictorial representations, including those involving numbers, quantities and measures -applying their increasing knowledge of mental and written methods recall and use addition and subtraction facts to 20 fluently ($19 - 7 = 12$), and derive and use related facts up to 100 ($30 = 90 - 60$) add and subtract numbers using concrete objects, pictorial 	Geometry and Position & Direction Week 7
		<ul style="list-style-type: none"> choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels compare and order lengths, mass, volume/capacity and record the results using >, < and =

<ul style="list-style-type: none"> • read and write numbers to at least 100 in numerals and in words e.g. forty • use place value and number facts to solve problems 	<p>representations, and mentally, including:</p> <ul style="list-style-type: none"> - a two-digit number and ones $13 + 4 = 17$ - a two-digit number and tens $23 + 20 = 43$ or two two-digit numbers $24 + 12 = 36$ - adding three one-digit numbers $4 + 3 + 6 = 13$ • show that addition of two numbers can be done in any order (commutative, e.g. $3 + 4 = 7$, $4 + 3 = 7$) and subtraction of one number from another cannot • recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems e.g. $\Delta - 14 = 28$ 	<ul style="list-style-type: none"> • identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line • identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • identify 2-D shapes on the surface of 3-D shapes, e.g. a circle on a cylinder and a triangle on a pyramid • compare and sort common 2-D and 3-D shapes and everyday objects
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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"> • recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers e.g. $22 \div 2 = 11$ • calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs 	<ul style="list-style-type: none"> • recognise, find, name and write fractions $1/3$, $1/4$, $2/4$ and $3/4$ of a length, shape, set of objects or quantity e.g. $1/3$ of 30cm = 10cm • write simple fractions e.g. $1/2$ of 6 = 3 and recognise the equivalence of $2/4$ and $1/2$. 	<ul style="list-style-type: none"> • choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels • recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value e.g. find different ways to make 50p, pupils can 	<ul style="list-style-type: none"> • 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. • interpret and construct simple pictograms (e.g. where the symbol represents 2, 5 or 10 units), tally charts, block diagrams and simple tables • SCIENCE LINK: To be able to identify and name a variety of plants and animals in their habitats (including microhabitats).

<ul style="list-style-type: none"> show that multiplication of two numbers can be done in any order (commutative, e.g. $5 \times 3 = 15$, $3 \times 5 = 15$) and division of one number by another cannot 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 		<p>work out how many £2 coins are needed to exchange for a £20 note</p> <ul style="list-style-type: none"> find different combinations of coins that equal the same amounts of money e.g. how many different ways can you make 30p? 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? 	<ul style="list-style-type: none"> interpret and construct simple pictograms (e.g. where the symbol represents 2, 5 or 10 units), tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and comparing categorical data
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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"> 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.... recognise the place value of each digit in a two-digit number (tens, ones) identify, represent and estimate numbers using different representations, including the number line compare and order numbers from 0 up to 100; use and = signs 	<ul style="list-style-type: none"> solve problems with addition and subtraction: <ul style="list-style-type: none"> - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods recall and use addition and subtraction facts to 20 fluently ($19 - 7 = 12$), and derive and use related facts up to 100 ($30 = 90 - 60$) 	<ul style="list-style-type: none"> recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers e.g. circle the odd numbers calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs show that multiplication of two numbers can be 	<ul style="list-style-type: none"> recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity e.g. how long is $\frac{1}{3}$ of a ribbon which is 60 cm long? There are 20 sweets. Jon is given $\frac{1}{3}$ and Amy is given $\frac{1}{2}$. Who is given the most sweets? write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$. 	<ul style="list-style-type: none"> choose and use appropriate standard units to estimate and measure temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels compare and sequence intervals of time tell and write the time to five minutes, including quarter past/to the hour and draw the

<ul style="list-style-type: none"> • read and write numbers to at least 100 in numerals and in words e.g. forty-five • use place value and number facts to solve problems 	<ul style="list-style-type: none"> • add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> - a two-digit number and ones $27 + 4$ - a two-digit number and tens $23 + 30$ - two two-digit numbers $34 + 29$ - adding three one-digit numbers $7 + 5 + 3$ • show that addition of two numbers can be done in any order (commutative, e.g. $3 + 4 = 7$, $4 + 3 = 7$) and subtraction of one number from another cannot • recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems e.g. $\Delta - 14 = 28$ 	<p>done in any order (commutative, e.g. $5 \times 3 = 15$, $3 \times 5 = 15$) and division of one number by another cannot</p> <ul style="list-style-type: none"> • 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 		<ul style="list-style-type: none"> • choose and use appropriate standard units to estimate and measure temperature ($^{\circ}\text{C}$) • recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value e.g. make 73p using the fewest coins • 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. • know the number of minutes in an hour and hours in a day
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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"> • identify and describe the properties of 2-D shapes, including the number of sides and symmetry in a vertical line • identify and describe the properties of 3-D shapes, 	<ul style="list-style-type: none"> • solve problems with addition and subtraction: o using concrete objects and pictorial representations, including those involving numbers, quantities and measures o applying their 	<ul style="list-style-type: none"> • recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers e.g. circle the odd numbers • calculate mathematical statements for multiplication and division within 	<ul style="list-style-type: none"> • recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity e.g. how long is $\frac{1}{3}$ of a ribbon which is 60 cm long? There are 20 sweets. Jon is given $\frac{1}{3}$ and Amy is

<p>including the number of edges, vertices and faces</p> <ul style="list-style-type: none"> • identify 2-D shapes on the surface of 3-D shapes e.g. a circle on a cylinder and a triangle on a pyramid • 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.... • order and arrange combinations of mathematical objects in patterns <p>GEOGRAPHY LINK: 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"> • 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 	<p>increasing knowledge of mental and written methods</p> <ul style="list-style-type: none"> • recall and use addition and subtraction facts to 20 fluently ($19 - 7 = 12$), and derive and use related facts up to 100 ($30 = 90 - 60$) • add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> - a two-digit number and ones $27 + 4$ - a two-digit number and tens $23 + 30$ - two two-digit numbers $34 + 29$ or adding three one-digit numbers $7 + 5 + 3$ • show that addition of two numbers can be done in any order (commutative, e.g. $3 + 4 = 7$, $4 + 3 = 7$) and subtraction of one number from another cannot • recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems e.g. $\Delta - 14 = 28$ 	<p>the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs</p> <ul style="list-style-type: none"> • show that multiplication of two numbers can be done in any order (commutative, e.g. $5 \times 3 = 15$, $3 \times 5 = 15$) and division of one number by another cannot • 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 	<p>given $\frac{1}{2}$. Who is given the most sweets?</p> <ul style="list-style-type: none"> • write simple fractions e.g. $\frac{1}{2}$ of $6 = 3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.
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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"> add and subtract numbers using concrete objects, pictorial representations, and mentally, including: o a two-digit number and ones $87 - 9 =$ o a two-digit number and tens e.g. $76 + 30$ o two two-digit numbers e.g. $63 - 29$ o adding three one-digit numbers e.g. $9 + 7 + 9$ • recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. 		<ul style="list-style-type: none"> choose and use appropriate standard units to estimate and measure temperature ($^{\circ}\text{C}$) recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value e.g. make 73p using the fewest coins 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 solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change e.g. I buy 	<ul style="list-style-type: none"> SCIENCE LINK: To be able to identify and name a variety of plants and animals in their habitats (including microhabitats). interpret and construct simple pictograms (e.g. where the symbol represents 2, 5 or 10 units), tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and comparing categorical data 	<ul style="list-style-type: none">

		a cake for 60p and a biscuit for 25p, how much change will I get from £1? • compare and sequence intervals of time • 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.		
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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