MATHS		Year 2 Objectives
Autumn	<u>Spring</u>	<u>Summer</u>
<u>Autumn 1</u> -30 days plus 5 problem solving days	Spring 1 -25 days plus 5 problem solving days	Summer 1 -30 days plus 5 problem solving days
Addition and subtraction -3 days	<u>Multiplication -</u> 2/3 days	Mental starters over next 2 weeks –addition and subtraction
- Recall and uses addition and subtraction facts to 20 and	-Recall and use multiplication and division facts	facts to 20, on to 100
	for the 2, 5 and 10 multiplication tables, including	-multiplication and division facts
-Fluently up to 20	recognising odd and even numbers	Statistics 3 days
- Add and subtract numbers using concrete objects, pictorial	<u>Measurement -</u> 3/4 days	-Interpret and construct simple pictograms, tally charts, block
representations, and mentally, including: TO+O, TO+T	-recognise and use symbols for pounds and pence;	diagrams and simple tables
Number and place value -3 days	combine amounts to make a particular value.	-Ask and answer simple questions by counting the number of
-Count in steps of 2, 3, and 5 from 0, and in tens from any	-find different combinations of coins that equal the	objects in each category and sorting the categories by quantity
number, forward and backward (KPI)	same amounts of money	-ask and answer questions about totalling and comparing data
-Recognise the place value of each digit in a two-digit	-Solve simple problems in a practical context	-include the value of 1 (block or item shown) representing
number (tens, ones) -Read and write numbers to at least 100 in numerals and in	involving addition and subtraction of money of the	ratio of 2,5,or 10
	same unit, including giving change (KPI)	<u>Geometry -4</u> days
words	<u>Number and place value</u> -4 days	-Identify and describe the properties of 3d shapes, including the
<u>Geometry -1 day</u> -Identify and handle 3-D shapes –read and write names for	-Recognise the place value of each digit in a two- digit number (tens, ones)	number of edges, vertices and faces. -identify 2-D shapes on the surface of 3d
shapes.	-identify, represent and estimate numbers using	-Compare and sort common 3d shapes and everyday objects
Addition and subtraction -4/5 days	different representations, including the number	(KPI)
-Recall and uses addition and subtraction facts to 20 and	line.	-use mathematical vocab. to describe position, direction and
100	-use place value and number facts to solve	movement, including movement in a straight line and
-Fluently up to 20(KPI)	problems	distinguishing amounts of turn $-1/4$, $\frac{1}{2}$, $\frac{3}{4}$ turns –clockwise and
- Add and subtract numbers using concrete objects, pictorial	Addition and subtraction -4 days	anti-clockwise.
representations, and mentally, including: TO+O, TO+T	-Add and subtract numbers using concrete objects,	Number and place value_3 days
-Solve problems with addition and subtraction : using	pictorial representations, and mentally, including:	-identify, represent and estimate numbers using different
concrete objects and pictorial representations, including	TO+O, TO+T, TO+TU and O+O+O	representations, including the number line
those involving numbers, quantities and measures (KPI)	-Show that addition of two numbers can be done	-include temperature scales
Number and place value -3 days	in any order (commutative) and subtraction of one	-Compare and order numbers from 0 up to 100: use $<$, $>$ and $=$
-Count in steps of 2, 3, and 5 from 0, and in tens from any	number from another cannot	signs (KPI)
number, forward and backward (KPI)	-Recognise and use the inverse relationship	-use place value and number facts to solve problems
-doubling and halving	between addition and subtraction and use this to	-understand zero as a place holder
-Recognise the place value of each digit in a two-digit	check calculations and solve missing number	Addition and subtraction -5 days
number (tens, ones)	problems	-Recall and uses addition and subtraction facts to 20 and 100
-Read and write numbers to at least 100 in numerals and in	Measurement -4 days	-Add and subtract numbers using concrete objects, pictorial
words	-Choose and use appropriate standard units to	representations, and mentally, including: TO+O, TO+T,
-Compare and order numbers from 0 up to 100 (KPI)	estimate and measure mass to nearest unit using	TO+TO and O+O+O
Measurement -4 days	scales.	-include terms sum and difference
-counting and recognising coins		

-find different combinations of coins that equal the same	-Compare and order mass and record the results	-Solve problems with addition and subtraction : using concrete
amounts of money	using $<,>$ and =	objects and pictorial representations, including those involving
-Compare and sequence intervals of time	-Compare and sequence intervals of time	numbers, quantities and measures (KPI)
-Tell and write the time to five minutes, including quarter	-Tell and write the time to five minutes, including	-also applying their increasing knowledge of mental and
past/to the hour and draw the hands on a clock face to show	quarter past/to the hour and draw the hands on a	written methods
these times	clock face to show these times	-find different combinations of coins that equal the same
Addition and subtraction -4/5 days	Multiplication and division -4 days	amounts of money
-Recall and uses addition and subtraction facts to 20 and	-Calculate mathematical statements for	-Solve simple problems in a practical context involving addition
100	multiplication and division within the	and subtraction of money of the same unit, including giving
-Fluently up to 20(KPI)	multiplication tables and write them using the	change (KPI)
- Add and subtract numbers using concrete objects, pictorial	multiplication (\times), division (\div) and equals (=)	Multiplication -2/3 days
representations, and mentally, including: TO+O, TO+T,	signs	-Recall and use multiplication and division facts for the 2, 5 and
TU+TU, O+O+O	- Solve problems involving multiplication and	10 multiplication tables, including recognising odd and even
-Solve problems with addition and subtraction : using	division using materials, arrays, repeated addition,	numbers
concrete objects and pictorial representations, including	mental methods and multiplication and division	-Calculate mathematical statements for multiplication and
those involving numbers, quantities and measures (KPI)	facts including problems in context (KPI)	division within the multiplication tables and write them using
		the multiplication (\times), division (\div) and equals (=) signs
Autumn 2 -30 days plus 5 problem solving day	3 days left here	<u>Measurement -</u> 3 days
Number and place value -5 days		-compare and sequence intervals of time
-Recognise the place value of each digit in a two-digit	Spring 2 -25 days plus 5 problem solving days	-Tell and write the time to five minutes, including quarter
number (tens, ones)	Number and place value-3 days	past/to the hour and draw the hands on a clock face to show
-Read and write numbers to at least 100 in numerals and in	-Count in steps of 2, 3, and 5 from 0, and in tens	these times
words	from any number, forward and backward (KPI)	-know the number of minutes in an hour and the number of
-Identify, represent and estimate numbers using different	-Read and write numbers to at least 100 in	hours in a day
representations, including the number line	numerals and in words	<u>Multiplication -</u> 2/3 days
-also include rounding	-Compare and order numbers from 0 up to 100:	-Show that multiplication of two numbers can be done in any
-Compare and order numbers from 0 up to 100 (KPI)	use < , > and = signs (KPI)	order (commutative) and division of one number by another
-use <, > and = signs	Geometry -2 days	cannot.
-use place value and number facts to solve problems	-Identify and describe the properties of 2-D	-Solve problems involving multiplication and division using
Addition and subtraction -5 days	shapes, including the number of sides and line	materials, arrays, repeated addition, mental methods and
-Recall and uses addition and subtraction facts to 20 and	symmetry in a vertical line	multiplication and division facts including problems in context
100	Statistics 2/3 days	Fractions - 3 days
-Fluently up to 20(KPI)	-Interpret and construct simple pictograms, tally	-Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4
-show that addition of 2 numbers can be done in any order	charts, block diagrams and simple tables	of a length, shape, set of objects or quantity
(commutative) and subtraction of one number from another	-Ask and answer simple questions by counting the	-write simple fractions for example, $\frac{1}{2}$ of $6 = 3$ and recognise
cannot.	number of objects in each category and sorting the	the equivalence of $2/4$ and $1/2$
-Recognise and use the inverse relationship between	categories by quantity	Summer 2 -30 days plus 5 problem solving days
addition and subtraction and use this to check calculations	Multiplication and division -4 days	Geometry -3 days
and solve missing number problems	-Recall and use multiplication and division facts	-Identify and describe the properties of 2-D shapes, including
	for the 2, 5 and 10 multiplication tables, including	the number of sides and line symmetry in a vertical line
	recognising odd and even numbers (KPI)	-draw lines and shapes using a straight edge

 -Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (KPI -measurement) <u>Geometry -2/3 days</u> -Identify and describe the properties of 3d shapes, including the number of edges, vertices and faces. -Compare and sort common 3d shapes and everyday objects (KPI) <u>Multiplication and division -3</u> days -Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (KPI) -Calculate mathematical statements for multiplication and division (<i>repeat addition</i>) -doubling and halving <u>Measurement -4</u> days -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 -Choose and use appropriate standard units to estimate and measure length, using rulers -compare and order lengths using < and > and = <u>Geometry -3 days</u> -Identify and handle 2-D shapes –read and write names for shapes. -Identify and describe the properties of 2d shapes, including the number of edges, vertices and faces. -Compare and sort common 2d shapes and everyday objects (KPI) –Venn diagrams <u>Fractions -2/3 days</u> -Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of a shape and a set of objects. <u>Statistics -2</u> days -Interpret and construct simple tally charts, block diagrams and simple tables 3 days left here. 	 Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods and multiplication and division facts including problems in context (KPI) <u>Fractions</u> -3 days -Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity <u>Geometry</u> -3 days -Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces Order and arrange combinations of mathematical objects in patterns and sequences <u>Measurement</u> -2 days -Choose and use appropriate standard units to estimate and measure capacity to nearest unit using measuring vessels. -Compare and order capacity and record the results using <,> and = <u>Addition and subtraction</u> -5 days -Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: TO+O, TO+T, TO+TU and O+O+O -include terms sum and difference -Solve problems with addition and subtraction : using concrete objects and pictorial 	 -identify 2d shapes on the surface of 3d shapes. -compare and sort common 2d and 3d shapes and everyday objects 4 days used for SAT assessment Addition and subtraction -4 days -Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems -Solve problems with addition and subtraction : using concrete objects and pictorial representations, including those involving numbers, quantities and measures (KPI) -also applying their increasing knowledge of mental and written methods Multiplication -3 days -Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers -Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods and multiplication and division facts including problems in context Number -2/3 days -read and write numbers to at least 100 in numerals and in words -Compare and order numbers from 0 up to 100: use < , > and = signs (KPI) -use place value and number facts to solve problems -understand zero as a place holder <u>Fractions</u> -3 days -Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity -write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of 2/4 and 1/2 <u>Measurement -4/5 days</u> -recognise and use symbols for pounds and pence; combine amounts to make a particular value. -find different combinations of coins that equal the same amounts to make a particular value. -find different combinations of coins that equal the same amounts of money -compare and order lengths, mass, volume/ capacity and record the results using <, > and = 5 days left
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