

MATHS	2020-2021	Year 2 objectives
<u>Autumn</u>	<u>Spring</u>	<u>Summer</u>
<p><u>Autumn 1</u> -30 days plus 5 problem solving days</p> <p><u>Addition and subtraction</u> -3 days</p> <ul style="list-style-type: none"> - Recall and uses addition and subtraction facts to 20 and 100 -Fluently up to 20 - Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: TO+O, TO+T <p><u>Number and place value</u> -3 days</p> <ul style="list-style-type: none"> -Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward (KPI) -Recognise the place value of each digit in a two-digit number (tens, ones) -Read and write numbers to at least 100 in numerals and in words <p><u>Geometry</u> -1 day</p> <ul style="list-style-type: none"> -Identify and handle 3-D shapes –read and write names for shapes. <p><u>Addition and subtraction</u> -4/5 days</p> <ul style="list-style-type: none"> -Recall and uses addition and subtraction facts to 20 and 100 -Fluently up to 20(KPI) - Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: TO+O, TO+T -Solve problems with addition and subtraction : using concrete objects and pictorial representations, including those involving numbers, quantities and measures (KPI) <p><u>Number and place value</u> -3 days</p> <ul style="list-style-type: none"> -Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward (KPI) -doubling and halving -Recognise the place value of each digit in a two-digit number (tens, ones) -Read and write numbers to at least 100 in numerals and in words -Compare and order numbers from 0 up to 100 (KPI) <p><u>Measurement</u> -4 days</p> <ul style="list-style-type: none"> -counting and recognising coins 	<p><u>Spring 1</u> -25 days plus 5 problem solving days</p> <p><u>Multiplication</u> -2/3 days</p> <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 <p><u>Measurement</u> -3/4 days</p> <ul style="list-style-type: none"> -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 of money -Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change (KPI) <p><u>Number and place value</u> -4 days</p> <ul style="list-style-type: none"> -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. -use place value and number facts to solve problems <p><u>Addition and subtraction</u> -4 days</p> <ul style="list-style-type: none"> -Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: TO+O, TO+T, TO+TU and O+O+O -Show that addition of two numbers can be done in any order (commutative) 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 solve missing number problems <p><u>Measurement</u> -4 days</p> <ul style="list-style-type: none"> -Choose and use appropriate standard units to estimate and measure mass to nearest unit using scales. -Compare and order mass and record the results 	<p><u>Summer 1</u> -30 days plus 5 problem solving days</p> <p><u>Mental starters over next 2 weeks</u> –addition and subtraction facts to 20, on to 100</p> <ul style="list-style-type: none"> -multiplication and division facts <p><u>Statistics</u> 3 days</p> <ul style="list-style-type: none"> -Interpret and construct simple pictograms, 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 data -include the value of 1 (block or item shown) representing ratio of 2,5,or 10 <p><u>Geometry</u> -4 days</p> <ul style="list-style-type: none"> -Identify and describe the properties of 3d shapes, including the number of edges, vertices and faces. -identify 2-D shapes on the surface of 3d -Compare and sort common 3d shapes and everyday objects (KPI) -use mathematical vocab. to describe position, direction and movement, including movement in a straight line and distinguishing amounts of turn -1/4, 1/2, 3/4 turns –clockwise and anti-clockwise. <p><u>Number and place value</u>-3 days</p> <ul style="list-style-type: none"> -identify, represent and estimate numbers using different representations, including the number line -include temperature scales -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 <p><u>Addition and subtraction</u> -5 days</p> <ul style="list-style-type: none"> -Recall and uses addition and subtraction facts to 20 and 100 -Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: TO+O, TO+T, TO+TO and O+O+O -include terms sum and difference -Solve problems with addition and subtraction : using concrete

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

<p>including giving change (KPI -measurement)</p> <p><u>Geometry -2/3 days</u></p> <ul style="list-style-type: none"> -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) <p><u>Multiplication and division -3 days</u></p> <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 (KPI) -Calculate mathematical statements for multiplication and division (<i>repeat addition</i>) -doubling and halving <p><u>Measurement -4 days</u></p> <ul style="list-style-type: none"> -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 = <p><u>Geometry -3 days</u></p> <ul style="list-style-type: none"> -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 <p><u>Fractions -2/3 days</u></p> <ul style="list-style-type: none"> -Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a shape and a set of objects. <p><u>Statistics -2 days</u></p> <ul style="list-style-type: none"> -Interpret and construct simple tally charts, block diagrams and simple tables <p>3 days left here.</p>	<p>division using materials, arrays, repeated addition, mental methods and multiplication and division facts including problems in context (KPI)</p> <p><u>Fractions -3 days</u></p> <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 <p><u>Geometry -3 days</u></p> <ul style="list-style-type: none"> -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 <p><u>Measurement -2 days</u></p> <ul style="list-style-type: none"> -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 = <p><u>Addition and subtraction -5 days</u></p> <ul style="list-style-type: none"> -Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: TO+O, TO+I, TO+TU and O+O+O -include terms sum and difference <ul style="list-style-type: none"> -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 	<ul style="list-style-type: none"> -compare and sort common 2d and 3d shapes and everyday objects <p>4 days used for SAT assessment</p> <p><u>Addition and subtraction -4 days</u></p> <ul style="list-style-type: none"> -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 <p><u>Multiplication -3 days</u></p> <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 -Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods and multiplication and division facts including problems in context <p><u>Number -2/3 days</u></p> <ul style="list-style-type: none"> -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 <p><u>Fractions -3 days</u></p> <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 -write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2 <p><u>Measurement -4/5 days</u></p> <ul style="list-style-type: none"> -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 of money -compare and order lengths, mass, volume/ capacity and record the results using < , > and = <p>5 days left</p>
--	---	--

