

MATHEMATICS Year 2

All children will access age related curriculum objectives.	All children will:	Children, who grasp concepts rapidly, may:
Number Place Value		
Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.	<i>I can count forward and backward in steps of 2, 3, and 5 from 0, and make jumps in tens from any number.</i>	<i>I can count forward and backward confidently in steps of 2, 3, and 5 from 0, and make jumps in tens from any number.</i>
Recognise the place value of each digit in a two-digit number (tens, ones).	<i>I know what each digit means in two-digit numbers such as 24.</i>	<i>I know what each digit means in two-digit numbers such as 24 and I can use this to solve calculations.</i>
Identify, represent and estimate numbers using different representations, including the number line.	<i>I can find and show numbers on a number line.</i>	<i>I can accurately find and show numbers, money and measures on a number line.</i>
Compare and order numbers from 0 up to 100.	<i>I can order numbers up to 100 and tell you which numbers are bigger or smaller.</i>	<i>I can order numbers, money and different measurements up to 100 and tell you which numbers are bigger or smaller.</i>
Use greater than, less than and = signs.	<i>I use the greater than, less than and equals signs in maths and know what they mean.</i>	<i>I use the greater than, less than and equals signs in maths and know what they mean when comparing numbers, measures and money.</i>
Read and write numbers to at least 100 in numerals and in words.	<i>I can read and write numbers to 100 in digits and words.</i>	<i>I can read and write numbers to 100 in digits and words without help.</i>
Use place value and number facts to solve problems.	<i>I solve problems using number facts such as $18+2=20$ and what I know about the value of digits in a number.</i>	<i>I solve problems using number facts in different contexts such as $18\text{cm}+2\text{cm}=20\text{cm}$ and what I know about the value of digits in a number.</i>
Addition Subtraction		
Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures. those involving numbers, quantities and measures.	<i>I answer addition and subtraction maths problems using objects or pictures to help me work it out.</i>	<i>I answer more difficult addition and subtraction maths problems using objects or pictures to help me work it out.</i>
Solve problems with addition and subtraction applying their increasing knowledge of mental and written methods.	<i>I can solve addition and subtraction problems and work out how I answer it on paper or show you how I did it in my head by explaining step by step.</i>	<i>I can solve addition and subtraction problems using money and measures, and work out how I answer it on paper or show you how I did it in my head by explaining step by step.</i>
Solve problems with addition and subtraction recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	<i>I answer problems with addition and subtraction using my number facts to 20 and other number facts up to 100.</i>	<i>I answer problems with addition and subtraction quickly, using my number facts to 20 and other number facts up to 100.</i>

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Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a two-digit number and ones.	<i>I can add and subtract numbers such as $34 - 8$ or $52 + 5$ using objects or pictures to help.</i>	<i>I can solve real-life problems by adding and subtracting numbers such as $31 - 9$ or $56 + 5$ using objects or pictures to help.</i>
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a two-digit number and tens.	<i>I add and subtract two-digit numbers using objects to help me.</i>	<i>I can solve real-life problems by adding and subtracting two-digit numbers using objects to help me.</i>
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including two two-digit numbers.	<i>I can add or subtract numbers such as $42 - 22$ or $56 + 29$ using objects or pictures to help me.</i>	<i>I can add or subtract money and measures such as $42g - 22g$ or $56p + 29p$ using objects or pictures to help me.</i>
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including adding three one-digit numbers.	<i>I can add or subtract three numbers such as $2 + 5 + 9$.</i>	<i>I can add or subtract three numbers such as $2 + 7 + 9$ quickly.</i>
Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.	<i>I know that adding two numbers together can be done in any order but subtracting numbers can only be done in one order.</i>	<i>I can solve problems that show adding two numbers together can be done in any order but subtracting numbers can only be done in one order.</i>
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	<i>I can check my answers or solve missing number problems by doing an inverse check.</i>	<i>I can confidently check my answers accurately or solve missing number problems by doing an inverse check.</i>
Multiplication Division		
Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	<i>I know my 2 and 5 and 10 times tables by heart and can tell whether a number is odd or even.</i>	<i>I know my 2 and 5 and 10 times tables by heart, can recall the answer quickly and can tell whether a number is odd or even.</i>
Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs.	<i>I use multiplication (\times), division (\div) and equals ($=$) signs when writing out my times tables.</i>	<i>I can solve mathematical problems using multiplication (\times), division (\div) and equals ($=$) signs.</i>
Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	<i>I know that the multiplication of two numbers can be done in any order, but that the division of numbers can only be done in one order.</i>	<i>I can solve problems to show that multiplication of two numbers can be done in any order, but that the division of numbers can only be done in one order.</i>
[EXS] [KEY] Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	<i>I can solve multiplication and division problems using times table facts and objects or pictures to help me.</i>	<i>I can solve multiplication and division problems in different subjects, using times table facts and objects or pictures to help me.</i>

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Fractions		
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.	<i>I can find $\frac{1}{3}$ or $\frac{1}{4}$ or $\frac{2}{4}$ or $\frac{3}{4}$ of a shape, length or set of objects.</i>	<i>I can solve practical problems by finding and writing $\frac{1}{3}$ or $\frac{1}{4}$ or $\frac{2}{4}$ or $\frac{3}{4}$ of a shape, length or set of objects.</i>
Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	<i>I can write simple fractions sentences such as $\frac{1}{2}$ of 6 = 3 and know that $\frac{2}{4}$ equals $\frac{1}{2}$.</i>	<i>I can solve real-life problems involving writing simple fractions sentences such as $\frac{1}{4}$ of 8 = 2 and knowing that $\frac{2}{4}$ equals $\frac{1}{2}$.</i>
Measurement		
Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}$ C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.	<i>I can choose, use and measure the correct unit to measure length or height in any direction (m/cm); weight (kg/g); temperature ($^{\circ}$C); or capacity (litres/ml).</i>	<i>I can solve a range of problems and investigations by choosing, using and measuring the correct unit to measure length or height in any direction (m,cm); weight (kg,g); temperature ($^{\circ}$C); or capacity (litres,ml).</i>
Compare and order lengths, mass, volume/capacity and record the results using symbols for greater than, less than and =.	<i>I can compare and order lengths, weight and capacity and then record the results using symbols for greater than, less than and equals.</i>	<i>I can compare and order lengths, weight and capacity and then record the results using symbols for greater than, less than and equals across a range of subjects.</i>
Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.	<i>I know and use the symbols for pounds (£) and pence (p) and can add together different amounts of money, such as 253p and £2.</i>	<i>I can solve practical problems using symbols for pounds (£) and pence (p) and can add together different amounts of money, such as 253p and £2.</i>
[EXS] [KEY] Find different combinations of coins that equal the same amounts of money.	<i>I can find different combinations of coins that equal the same amounts of money.</i>	<i>I can find all of the different combinations of coins that equal the same amounts of money using a system.</i>
Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	<i>I have solved money problems such as how much change do I get from 50p if I buy an apple for 35p?</i>	<i>I have solved more difficult money problems such as how much change do I get from £1.00 if I buy an apple for 37p?</i>
Compare and sequence intervals of time.	<i>I can put the time of events in order.</i>	<i>I can put the time of events in order to solve real-life problems.</i>
Tell and write the time to fifteen minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.	<i>I can tell and write the time, including quarter past/to the hour and draw the hands on a clock face to show these times.</i>	<i>I can 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 confidently</i>
Know the number of minutes in an hour and the number of hours in a day.	<i>I know there are 60 minutes in an hour and 24 hours in a day.</i>	<i>I can solve real-life problems involving the number of minutes in an hour and hours in a day.</i>

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Shape		
Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.	<i>I can describe the properties of some 2-D shapes, including the number of sides they have and facts about their symmetry.</i>	<i>I investigate and compare the properties of some 2-D shapes, including the number of sides they have and facts about their symmetry.</i>
Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.	<i>I can describe the properties of some 3-D shapes, including the number of edges, faces and vertices they have.</i>	<i>I can investigate and compare the properties of some 3-D shapes, including the number of edges, faces and vertices they have.</i>
Identify 2-D shapes on the surface of 3-D shapes [for example, a circle on a cylinder and a triangle on a pyramid].	<i>I can tell you which 2-D shapes appear as the faces on 3-D shapes, such as triangles on a pyramid.</i>	<i>I can tell you which 2-D shapes appear as the faces on 3-D shapes and say how they have been turned to fit</i>
Compare and sort common 2-D and 3-D shapes and everyday objects.	<i>I can compare 2-D and 3-D shapes with everyday objects around me.</i>	<i>I can compare and classify 2-D and 3-D shapes with everyday objects around me based on their properties and can explain my choices.</i>
Position		
Order and arrange combinations of mathematical objects in patterns and sequences.	<i>I can order combinations of mathematical objects in patterns and sequences.</i>	<i>I can order combinations of mathematical objects in patterns and sequences, and I have begun to spot mathematical rules.</i>
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-quarter turns (clockwise and anti-clockwise).	<i>I can describe my position, direction and movement, including describing turns as quarter, half and three-quarter turns in clockwise and anti-clockwise directions.</i>	<i>I can describe the position, direction and movement of any object, including describing turns as quarter, half and three-quarter turns in clockwise and anti-clockwise directions, without support.</i>
Statistics		
Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.	<i>I can read and construct picture graphs, tally charts and tables.</i>	<i>I can confidently read and construct picture graphs, tally charts and tables in different subject areas</i>
Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.	<i>I can sort objects into categories and tell you how many objects are in each category and show which category has the most.</i>	<i>I can solve practical problems by sorting objects into categories and telling you how many objects are in each category and show which category has the most.</i>
Ask and answer questions about totalling and comparing categorical data.	<i>I work on sorting objects and can answer questions about the groups of objects I have sorted.</i>	<i>I work on sorting objects and can answer questions about the groups of objects I have sorted to solve real-life problems.</i>