

## Year 2 Programme of Study - 'Term per page overview' 2016-2017 FINAL

Term		National Curriculum requirements
Autumn	1. Number	use place value and number facts to solve problems
	within 100	• recognise the place value of each digit in a two-digit number (tens, ones)
	(2 weeks)	• identify, represent and estimate numbers to 100 using different representations, including the number line
		• compare and order numbers from 0 up to 100; use <, > and = signs
		read and write numbers to at least 100 in numerals and in words
		• count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward
	2. Add and subtract 2-	• recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
	digit numbers (2 weeks)	• show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
		• add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers
	3. Addition and	• recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems
	subtraction word problems	• 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
	(2 weeks)	<ul> <li>estimate the answer to a calculation and use inverse operations to check answers (Y3)</li> </ul>
	4. Measures: length (2 weeks)	• choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit, using rulers and scales
		• compare and order length and record the results using >, < and =
		• apply knowledge of numbers to 100 to read scales to the nearest appropriate standard unit in the context of length (m/cm)
	5. Graphs	• interpret and construct simple pictograms, tally charts, block diagrams and simple tables
	(1 week)	• 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
	6. Multiplication and division	• calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
	2, 5 and 10	<ul> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</li> </ul>
	(3 weeks)	• show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
		• recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers



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Spring	7. Time (2 weeks)	<ul> <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> <li>know the number of minutes in an hour and the number of hours in a day</li> <li>compare and sequence intervals of time</li> </ul>
	8. Exploring calculation strategies (2 weeks)	<ul> <li>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</li> <li>show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</li> <li>add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers</li> <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>estimate the answer to a calculation and use inverse operations to check answers (Y3)</li> </ul>
	9. Money (2 weeks)	<ul> <li>recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</li> <li>find different combinations of coins that equal the same amounts of money</li> <li>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</li> </ul>
	10. Faces, shapes and patterns; lines and turns (3 weeks)	<ul> <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, [for example, a circle on a cylinder and a triangle on a pyramid]</li> <li>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</li> <li>compare and sort common 2-D and 3-D shapes and everyday objects</li> <li>order and arrange combinations of mathematical objects in patterns and sequences</li> <li>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 anticlockwise)</li> </ul>
	11. Fractions (2 weeks)	<ul> <li>recognise, find, name and write fractions <sup>1</sup>/<sub>3</sub>, <sup>1</sup>/<sub>4</sub>, <sup>2</sup>/<sub>4</sub> and <sup>3</sup>/<sub>4</sub> of a length, shape, set of objects or quantity</li> <li>write simple fractions for example, <sup>1</sup>/<sub>2</sub> of 6 = 3</li> <li>recognise the equivalence of <sup>2</sup>/<sub>4</sub> and <sup>1</sup>/<sub>2</sub></li> </ul>



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Summer       12. Number within 1000       • use place value and number facts to solve problems identify, represent and estimate numbers to 1000 using different representations (Y3)         (1 week)       • recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (Y3)         • count from 0 in multiples of 1000 (fnl 10 or 100 more or less than a given number (Y3)         • count from 0 in multiples of 1000 fnl 10 or 100 more or less than a given number (Y3)         • apply knowledge of numbers to 1000 to read scales         • apply knowledge of numbers to 1000 to read scales         • apply knowledge of numbers to 1000 to read scales         • add and subtract a- digit ang.         • recall and use addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot         • add and subtract numbers with up to three digit number and ones; a three-digit number and tens; a three-digit number and ness; a three-digit number and tens; a three-digit number and measure capacity (litres/ml) and temperature (°C) to the nearest appropriate unit, using scales, thermometers and measuring vessels         • concose and use appropriate standard units to estimate and measure mass (kg/g)         15. Measures: mass (1 week)       • choose and use appropriate standard units to estimate and measure mass (kg/g)         • conces and use appropriate standard unit to estimate and measure mass (kg/g)         • conces and use multiplication and division (3 weeks)       • cecall and use multiplication and division (±) and equals (=) signs      <	Summer	12. Number	a use place value and number facts to solve problems
<ul> <li>(1 week)         <ul> <li>recognise the place value of each digit in a three-digit number (hundreds, tens, ones) (Y3)</li> <li>recad and write numbers up to 1000 (Y3)</li> <li>read and write numbers up to 1000 in numerals and in words (Y3)</li> <li>count from 0 in multiples of 100; find 10 or 100 more or less than a given number (Y3)</li> <li>apply knowledge of numbers to 1000 to read scales</li> <li>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</li> <li>show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</li> <li>add and subtract numbers mentally, including: a three-digit number and hundreds (Y3)</li> <li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction (Y3)</li> <li>choose and use appropriate standard units to estimate and measure capacity (litres/ml) and temperature (°C) to the nearest appropriate unit, using scales, thermometers and measuring vessels</li> <li>compare and order volume and capacity and record the results using &gt;, &lt; and =</li> <li>apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of capacity (litres/ml) and temperature (°C)</li> </ul> </li> <li>to choose and use appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate standard unit in the context of mass (kg/g)</li> <ul> <li>compare and order mass and record the results using &gt;, &lt; and =</li> <li>apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of mass (kg/g)</li> <li>cacluate mathematical statements for multiplication</li></ul></ul>	Summer		• identify, represent and estimate numbers to 1000 using different representations
<ul> <li>ones) (Y3)</li> <li>compare and order numbers up to 1000 (Y3)</li> <li>read and write numbers up to 1000 in numerals and in words (Y3)</li> <li>count from 0 in multiples of 100; find 10 or 100 more or less than a given number (Y3)</li> <li>apply knowledge of numbers to 1000 to read scales</li> <li>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</li> <li>show that addition of two numbers can be done in any order (commutative) and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction (Y3)</li> <li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction (Y3)</li> <li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction (Y3)</li> <li>compare and order volume and capacity and volume (2 weeks)</li> <li>choose and use appropriate standard units to estimate and measure capacity (litres/ml) and temperature (°C)</li> <li>there-ontext of capacity (litres/ml) and temperature (°C)</li> <li>to choose and use appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li>compare and order mass and record the results using &gt;, &lt; and = apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit to estimate and measure mass (kg/g) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li>compare and order mass and record the results using &gt;, &lt; and = apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of mass (kg/g)</li> <li>recall and use multiplication and division facts for the 3 and 4 multiplication tables (Y3)</li> <li>calculate mathematical statements for multiplication and division (\$), division (\$) and equals (\$) signs</li> <li>solve problems involving multiplication an</li></ul>		(1 week)	
<ul> <li>read and write numbers up to 1000 in numerals and in words (Y3)</li> <li>count from 0 in multiples of 100; find 10 or 100 more or less than a given number (Y3)</li> <li>count from 0 in multiples of 100; find 10 or 100 more or less than a given number (Y3)</li> <li>apply knowledge of numbers to 1000 to read scales</li> <li>recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100</li> <li>show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</li> <li>add and subtract numbers with up to three-digit number and ones; a three-digit number and hundreds (Y3)</li> <li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction (Y3)</li> <li>t4. Measures: capacity and volume (2 weeks)</li> <li>choose and use appropriate standard units to estimate and measure capacity (litres/ml) and temperature (°C) to the nearest appropriate unit, using scales, thermometers and measuring vessels</li> <li>compare and order volume and capacity and record the results using &gt;, &lt; and = apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of capacity (litres/ml) and temperature (°C)</li> <li>the nearest appropriate standard units to estimate and measuring vessels</li> <li>compare and order mass and record the results using &gt;, &lt; and = apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of mass (kg/g)</li> <li>to the nearest appropriate to 1000 to read scales to the nearest appropriate standard units to estimate and measuring vessels</li> <li>compare and order mass and record the results using &gt;, &lt; and = apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of mass (kg/g)</li> <li>recall and use multiplication and division facts for the 3 and 4 mu</li></ul>			ones) (Y3)
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15. Measures: mass (1 week)• choose and use appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels16. Multiplication and division 3x and 4x (3 weeks)• recall and use multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs16. Multiplication and division 3x and 4x (3 weeks)• recall and use multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs16. Multiplication and division 3x and 4x (3 weeks)• recall and use multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts,		(2 weeks)	• compare and order volume and capacity and record the results using >, < and =
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<ul> <li>apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of mass (kg/g)</li> <li>f.</li> <li>Multiplication and division gat and division (*), division (÷) and equals (=) signs</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts,</li> </ul>		mass	to the nearest appropriate unit, using rulers, scales, thermometers and measuring
<ul> <li>apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of mass (kg/g)</li> <li>f.</li> <li>Multiplication and division gat and division (*), division (÷) and equals (=) signs</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts,</li> </ul>			• compare and order mass and record the results using >, < and =
<ul> <li>Multiplication and division 3x and 4x</li> <li>(3 weeks)</li> <li>Induction and division and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts,</li> </ul>			
<ul> <li>3x and 4x</li> <li>(3 weeks)</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts,</li> </ul>		Multiplication	
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<ul> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts,</li> </ul>		(3 weeks)	
			repeated addition, mental methods, and multiplication and division facts,
<ul> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> </ul>			• show that multiplication of two numbers can be done in any order (commutative)