

## Year 4 'Curriculum for Depth' Programme of Study - 'Term per page overview'

Half term	National Curriculum requirements	
<b>Autumn 1</b>	<b>Reasoning with 4 digit numbers</b>  (2 weeks)	<ul style="list-style-type: none"> <li>find 1000 more or less than a given number</li> <li>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</li> <li>order and compare numbers beyond 1000</li> <li>solve number and practical problems that involve all of the above and with increasingly large positive numbers</li> <li>identify, represent and estimate numbers using different representations</li> <li>round any number to the nearest 10, 100 or 1000</li> <li>read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value</li> <li>count in multiples of 6, 7, 9, 25 and 1000</li> </ul>
	<b>Problem solving with integer addition and subtraction</b> (3 weeks)	<ul style="list-style-type: none"> <li>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</li> <li>estimate and use inverse operations to check answers to a calculation</li> <li>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</li> </ul>
<b>Autumn 2</b>	<b>Multiplication and division</b>  (2 weeks)	<ul style="list-style-type: none"> <li>recall multiplication and division facts for multiplication tables up to <math>12 \times 12</math></li> <li>solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as <math>n</math> objects are connected to <math>m</math> objects</li> <li>recognise and use factor pairs and commutativity in mental calculations</li> <li>use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</li> <li>multiply two-digit and three-digit numbers by a one-digit number using formal written layout</li> </ul>
	<b>Time</b> (1 week)	<ul style="list-style-type: none"> <li>convert between different units of measure [for example, hour to minute]</li> <li>problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days</li> <li>write and convert time between analogue and digital 12- and 24-hour clocks</li> </ul>
	<b>Area and perimeter</b> (2 weeks)	<ul style="list-style-type: none"> <li>measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</li> <li>convert between different units of measure [for example, kilometre to metre]</li> <li>find the area of rectilinear shapes by counting squares</li> </ul>



<b>Spring 1</b>	<b>Fractions</b> <b>(3 weeks)</b>	<ul style="list-style-type: none"><li>• add and subtract fractions with the same denominator</li><li>• recognise and show, using diagrams, families of common equivalent fractions</li><li>• count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten</li><li>• solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number</li></ul>
	<b>Discrete and continuous data</b> <b>(2 weeks)</b>	<ul style="list-style-type: none"><li>• solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs</li><li>• interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs</li></ul>
<b>Spring 2</b>	<b>Decimals</b> <b>(2 weeks)</b>	<ul style="list-style-type: none"><li>• find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</li><li>• recognise and write decimal equivalents of any number of tenths or hundredths</li><li>• recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math></li><li>• round decimals with one decimal place to the nearest whole number</li><li>• compare numbers with the same number of decimal places up to two decimal places</li></ul>
	<b>Solving problems with addition and subtraction o</b> <b>(2 weeks)</b>	<ul style="list-style-type: none"><li>• solve simple measure and money problems involving fractions and decimals to two decimal places</li><li>• estimate, compare and calculate different measures, including money in pounds and pence</li></ul>



<b>Summer 1</b>	<b>Coordinates, shape and symmetry</b>  <b>(5 weeks)</b>	<ul style="list-style-type: none"><li>• describe positions on a 2-D grid as coordinates in the first quadrant</li><li>• describe movements between positions as translations of a given unit to the left/right and up/down</li><li>• plot specified points and draw sides to complete a given polygon</li><li>• compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li><li>• identify acute and obtuse angles and compare and order angles up to two right angles by size</li><li>• identify lines of symmetry in 2-D shapes presented in different orientations</li><li>• complete a simple symmetric figure with respect to a specific line of symmetry</li></ul>
<b>Summer 2</b>	<b>Calculating with whole numbers and decimals</b>  <b>(5 weeks)</b>	<ul style="list-style-type: none"><li>• consolidation and application opportunities</li></ul>