



Year 5 Teacher Edition



<b>Textbook 5a</b>	
<b>Chapter</b>	<b>Topic</b>
	<b>Note: Every lesson begins with a problem</b> <b>Fluency, problem solving and reasoning to be central to all lessons.</b>
1	<b>Numbers to 1,000,000</b> <ul style="list-style-type: none"><li>• Read and write numbers to 1,000,000</li><li>• Tell the place value of a digit in a number</li><li>• Compare and arrange numbers within 1,000,000</li><li>• Count forwards and backwards in steps of 1000, 10,000 and 100,000</li></ul> Rounding numbers to the nearest 10, 100, 1000, 10,000 and 100,000
2	<b>Whole Numbers: Addition and Subtraction</b> <ul style="list-style-type: none"><li>• Add whole numbers with more than 4 digits (<i>including column method when appropriate</i>)</li><li>• Add numbers mentally</li><li>• Subtract whole numbers with more than 4 digits (<i>including column method when appropriate</i>)</li><li>• Subtract numbers mentally</li></ul> Use rounding to check answers
3	<b>Whole Numbers: Multiplication and Division</b> <ul style="list-style-type: none"><li>• Find multiples and common multiples</li><li>• Find factors and common factors</li><li>• Identify prime and composite numbers</li><li>• Recognise square numbers and cube numbers, and use the notation for squares (e.g. <math>4^2</math>) and cubes (e.g. <math>2^3</math>)</li><li>• <i>Multiply 4 digit numbers by one or two digit numbers using a formal written method, including long multiplication where appropriate</i></li><li>• <i>Divide numbers up to 4 digits by a one-digit number using a formal written method where appropriate and show understanding with counters</i></li></ul> Multiply and divide whole numbers and decimals by 10, 100, 1000
4	<b>Whole Numbers: Word Problems</b> <p>Solve word problems involving addition, subtraction, multiplication and division, and a combination of these</p>
5	<b>Graphs</b> <ul style="list-style-type: none"><li>• Read and interpret information in a timetable</li><li>• Read, interpret and complete information in a table</li></ul> Read and interpret information from a line graph
6	<b>Fractions</b> <ul style="list-style-type: none"><li>• Find equivalent fractions of a given fraction</li><li>• Recognise mixed numbers and improper fractions and convert from one form to the other</li><li>• Compare and order fractions</li><li>• Add and subtract fractions (<i>including those with different denominators</i>)</li></ul>

	Multiply proper fractions and mixed numbers by whole numbers
<b>Textbook 5b</b>	
7	<p><b>Decimals</b></p> <ul style="list-style-type: none"> <li>• Read and write decimals up to three decimal places</li> <li>• Compare and order decimals up to three decimal places</li> <li>• Write fractions as decimals <i>and decimal numbers as fractions e.g. <math>0.71=71/100</math></i></li> <li>• Add and subtract decimals</li> <li>• Round decimals with two decimal places to the nearest whole number and to one decimal place</li> </ul> <p>Solve problems involving decimals up to three decimal places</p>
8	<p><b>Percentages</b></p> <ul style="list-style-type: none"> <li>• Recognise <i>and understand</i> the per cent symbol (%)</li> <li>• Find percentage of a given number</li> <li>• Interpret a percentage as a fraction of an amount <i>and a decimal</i></li> </ul> <p><i>Solve problems which require knowing percentage and decimal equivalents</i></p>
9	<p><b>Geometry</b></p> <ul style="list-style-type: none"> <li>• Identify <i>and compare</i> acute angles, right angles, obtuse angles and reflex angles</li> <li>• Draw and measure given angles</li> <li>• Identify angles on a straight line and angles that meet at a point</li> <li>• Find unknown angles <i>and lengths</i> in squares and rectangles</li> <li>• Identify regular polygons</li> </ul> <p>Identify 3-D shapes from 2-D drawings (<i>including distinguishing between regular and irregular polygons</i>)</p>
10	<p><b>Position and Movement</b></p> <ul style="list-style-type: none"> <li>• Write the coordinates of points</li> <li>• Describe translations and reflections</li> </ul> <p>Find the position of a shape after translation or after reflection</p>
11	<p><b>Measurements</b></p> <ul style="list-style-type: none"> <li>• Convert measurements of length (<i>including imperial units</i>)</li> <li>• Convert measurements of mass (<i>including imperial units</i>)</li> <li>• Convert measurements of time</li> </ul> <p><i>Tell the temperature (interpreting negative numbers in context, counting forward and backwards, including through zero)</i></p>
12	<p><b>Area and Perimeter</b></p> <ul style="list-style-type: none"> <li>• Find the perimeter of a figure</li> <li>• Find the area of a figure (<i>including irregular shapes</i>)</li> <li>• Use scale diagrams to find the perimeter and the area of a figure</li> </ul> <p>Estimate the area of a figure</p>
13	<p><b>Volume</b></p> <ul style="list-style-type: none"> <li>• Find and compare the volumes of solids</li> <li>• Find and compare the capacity of rectangular boxes</li> <li>• Estimate volume and capacity</li> </ul>

	<ul style="list-style-type: none"><li>• Convert units of volume</li></ul>
14	<b>Roman Numerals</b> <ul style="list-style-type: none"><li>• Write Roman numerals up to 1000</li></ul> Write years in Roman numerals