

Year 6 Maths Medium Term Plan – Autumn		
Weeks	Place value	Inspire Coverage
1 - 3	WEEK ONE – DERWENT HILL	
	<ul style="list-style-type: none"> <li>read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</li> </ul>	PB5A Unit 1: Whole Numbers (1), 2–19
	<ul style="list-style-type: none"> <li>round any whole number to a required degree of accuracy</li> </ul>	PB5A Unit 1: Whole Numbers (1), 20–28
	<ul style="list-style-type: none"> <li>use negative numbers in context, and calculate intervals across zero</li> </ul>	
	<ul style="list-style-type: none"> <li>solve number and practical problems that involve all of the above</li> </ul>	PB5A Unit 1: Whole Numbers (1), 11–19, 23–28
<b>Number – addition, subtraction, multiplication and division</b>		
4-7	<ul style="list-style-type: none"> <li>multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> </ul>	PB4A Unit 3: Whole Numbers (3), 52–56
	<ul style="list-style-type: none"> <li>divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</li> </ul>	
	<ul style="list-style-type: none"> <li>divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</li> </ul>	
	<ul style="list-style-type: none"> <li>perform mental calculations, including with mixed operations and large numbers</li> </ul>	Mental calculations are integrated throughout all years of <i>Inspire Maths</i> .
	<ul style="list-style-type: none"> <li>identify common factors, common multiples and prime numbers</li> </ul>	PB5A Unit 3: Fractions (1), 71–76, 80–81, 87–88, 90–95, 97, 99–101
	<ul style="list-style-type: none"> <li>use their knowledge of the order of operations to carry out calculations involving the four operations</li> </ul>	PB5A Unit 2: Whole Numbers (2), 50–56

	<ul style="list-style-type: none"> <li>• solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> </ul>	PB5A Unit 2: Whole Numbers (2), 57–69 PB5B Unit 7: Decimals, 30–36 PB5B Unit 9: Average, 56–63 PB5B Unit 10: Percentage, 83–91 PB5B Unit 11: Angles, 95, 99, 104–105 PB5B Unit 12: Properties of Triangles and 4-sided Figures, 132–135, 140  PB6A Unit 2: Angles in Shapes and Diagrams, 28–37 Multi-step problems appear throughout all years of <i>Inspire Maths</i> .
	<ul style="list-style-type: none"> <li>• solve problems involving addition, subtraction, multiplication and division</li> </ul>	PB5A Unit 2: Whole Numbers (2), 57–69
	<ul style="list-style-type: none"> <li>• use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy</li> </ul>	PB5A Unit 1: Whole Numbers (1), 23–26 PB5A Unit 2: Whole Numbers (2), 40–41, 48–49, 57 PB5B Unit 7: Decimals, 30–31
<b>Fractions, Decimals and Percentages</b>		

<b>8-13</b>	<ul style="list-style-type: none"> <li>use common factors to simplify fractions; use common multiples to express fractions in the same denomination</li> </ul>	PB5A Unit 3: Fractions (1), 71–76, 80–81, 87–88, 90–95, 97, 99–101 PB5B Unit 7: Decimals, 2–3
	<ul style="list-style-type: none"> <li>compare and order fractions, including fractions &gt; 1</li> </ul>	
	<ul style="list-style-type: none"> <li>add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</li> </ul>	PB5A Unit 3: Fractions (1), 71–76, 87–88, 90–95, 97, 99–101 PB6A Unit 4: Fractions, 54–55, 70–72, 75, 76
	<ul style="list-style-type: none"> <li>multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, <math>\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}</math>]</li> </ul>	PB5A Unit 4: Fractions (2), 102–109, 131 PB6A Unit 4: Fractions, 54, 70, 76
	<ul style="list-style-type: none"> <li>divide proper fractions by whole numbers [for example, <math>\frac{1}{3} \div 2 = \frac{1}{6}</math>]</li> </ul>	PB5A Unit 4: Fractions (2), 119–123 PB6A Unit 4: Fractions, 55, 68
	<ul style="list-style-type: none"> <li>associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, <math>\frac{3}{8}</math>]</li> </ul>	PB5A Unit 3: Fractions (1), 77–86
	<ul style="list-style-type: none"> <li>identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</li> </ul>	PB5B Unit 7: Decimals, 4–25, 35–36
	<ul style="list-style-type: none"> <li>multiply one-digit numbers with up to two decimal places by whole numbers</li> </ul>	
	<ul style="list-style-type: none"> <li>use written division methods in cases where the answer has up to two decimal places</li> </ul>	
	<ul style="list-style-type: none"> <li>solve problems which require answers to be rounded to specified degrees of accuracy</li> </ul>	PB5B Unit 7: Decimals, 31–34 PB5B Unit 8: Measurements, 41

		<p>PB5B Unit 10: Percentage, 75</p> <p>PB5B Unit 14: Volume of Cubes and Cuboids, 183</p> <p>PB6A Unit 1: Algebra, 21</p> <p>PB6A Unit 6: Percentage, 115–119, 126, 133, 134, 136, 138, 139</p> <p>PB6B Unit 7: Speed, 11</p> <p>PB6B Unit 8: Circles, 33, 34, 40, 46, 48, 49</p> <p>PB6B Unit 10: Area and Perimeter, 66, 67, 70, 71,</p> <p>PB6B Unit 11: Volume of Solids and Liquids, 77, 78, 84</p>
	<ul style="list-style-type: none"> <li>recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</li> </ul>	<p>PB5B Unit 10: Percentage, 64–76</p> <p>PB6A Unit 6: Percentage, 113–115, 118</p> <p>PB6B Unit 9: Pie Charts, 55, 60</p>
	<b>Geometry- properties of shape</b>	
<b>14-15</b>	<ul style="list-style-type: none"> <li>draw 2-D shapes using given dimensions and angles</li> </ul>	<p>PB5B Unit 13: Geometrical Construction, 141–154</p> <p>PB6B Unit 8: Circles, 29–30, 36</p>
	<ul style="list-style-type: none"> <li>recognise, describe and build simple 3-D shapes, including making nets</li> </ul>	<p>PB5B Unit 14: Volume of Cubes and Cuboids, 155–163</p> <p>PB6A Unit 3: Nets, 38–53</p>

	<ul style="list-style-type: none"> <li>compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons</li> </ul>	PB5B Unit 12: Properties of Triangles and 4-sided Figures, 113–140 PB6A Unit 2: Angles in Shapes and Diagrams, 25–37 PB6B Unit 8: Circles, 29–32, 35
	<ul style="list-style-type: none"> <li>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</li> </ul>	PB6B Unit 8: Circles, 29–32
	<ul style="list-style-type: none"> <li>recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</li> </ul>	PB5B Unit 11: Angles, 92–112 PB6A Unit 2: Angles in Shapes and Diagrams, 24–25, 28–30, 33–36