



## Mathematics Assessment: Year 6



Key Skills	Expectation(s)	Understood	Mastered
(1) Number and Place Value	<ul style="list-style-type: none"> <li>I can understand the value of digits to read, write, order and compare numbers up to 10,000,000</li> </ul>		
	<ul style="list-style-type: none"> <li>I can <b>interpret</b> negative numbers in context and calculate intervals across zero</li> </ul>		
	<ul style="list-style-type: none"> <li>I can <b>solve problems</b> including rounding numbers and decimals accurately</li> </ul>		
(2) Addition & Subtraction	<ul style="list-style-type: none"> <li>I can choose mental or formal methods of addition or subtraction to <b>solve challenging problems</b></li> </ul>		
	<ul style="list-style-type: none"> <li>I can use estimating and the inverse to check additions and subtractions are accurate</li> </ul>		
(3) Multiplication & Division	<ul style="list-style-type: none"> <li>I can multiply 4-digit numbers by 2-digit numbers using a formal layout <b>and</b> X decimals by 10...1000</li> </ul>		
	<ul style="list-style-type: none"> <li>I can divide 4-digits numbers by 1 or 2-digits and <b>interpret</b> remainders depending on the context</li> </ul>		
	<ul style="list-style-type: none"> <li>I can investigate common factors and multiples, as well as prime numbers incl. when <b>solving problems</b></li> </ul>		
	<ul style="list-style-type: none"> <li>I can <b>use related number facts</b> to calculate mentally with large numbers and mixed operations</li> </ul>		
	<ul style="list-style-type: none"> <li>I can <b>solve</b> multiplication and division <b>problems</b> including where the answers have decimal places</li> </ul>		
(4) Fractions, Decimals & Percentages	<ul style="list-style-type: none"> <li>I apply common denominators to add and subtract fractions with different denominators and mixed numbers</li> </ul>		
	<ul style="list-style-type: none"> <li>I can compare and order fractions which are more or less than a whole</li> </ul>		
	<ul style="list-style-type: none"> <li>I <b>use place value</b> to read, write, <b>order and compare</b> decimal numbers up to 3 decimal places</li> </ul>		
	<ul style="list-style-type: none"> <li>Multiply simple pairs of proper fractions (e.g. <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>)</li> </ul>		
	<ul style="list-style-type: none"> <li>I can recognize equivalence between fractions, decimals and percentages to solve problems</li> </ul>		
(5) Measuring	<ul style="list-style-type: none"> <li>I can solve problems involving units of measure (e.g. length of bus journeys / convert km to m)</li> </ul>		
	<ul style="list-style-type: none"> <li>I can calculate, estimate and compare the volume of cubes and cuboids</li> </ul>		
(6) Shape & geometry	<ul style="list-style-type: none"> <li>I can <b>use mathematical reasoning</b> to calculate missing angles in shapes and diagrams</li> </ul>		
(7) Reasoning and Problem solving	<ul style="list-style-type: none"> <li>I can apply a range of skills in <b>challenging investigations</b> and <b>prove statements right or wrong</b></li> </ul>		
	<ul style="list-style-type: none"> <li>I can <b>explain my methods and ideas using appropriate vocabulary and</b> check work is accurate</li> </ul>		
(8) Organising ideas & methods	<ul style="list-style-type: none"> <li>I can organise and <b>record my work clearly, logically and systematically</b></li> </ul>		

**Key:**

Colour coding highlights the importance of key skills which should permeate all teaching and learning

Green = problem solving

Pink = fluency

Blue = reasoning