

# PLACE VALUE KNOWLEDGE

Stage One	Stage Two & Three	Stage Four	Stage Five
<ul style="list-style-type: none"> <li>Instantly recognise <b>patterns to five</b>, including finger patterns</li> </ul>	<ul style="list-style-type: none"> <li>Knows <b>groupings within 5</b>, e.g. 2 and 3, 4 and 1</li> <li>Knows <b>groupings with 5</b>, e.g. 5 and 1, 5 and 3</li> <li>Knows <b>groupings within 10</b>, e.g. 5 and 5, 4 and 6</li> <li>Instantly <b>recognise patterns to ten</b>, including finger and tens frame patterns</li> </ul>	<ul style="list-style-type: none"> <li>Knows <b>groupings with 10</b>, e.g. 10 and 2 and the pattern of teens</li> <li>Knows <b>groupings within 20</b> e.g. 12 and 8, 6 and 14</li> <li>Recall the <b>number of tens</b> within decades</li> </ul>	<ul style="list-style-type: none"> <li>Recalls <b>groupings within 100</b>.e.g. 49 and 51, particularly multiples of 5 e.g. 25 and 75</li> <li>Recalls <b>groupings of two</b> that are in numbers <b>to 20</b>. e.g. 8 groups of 2 in 17</li> <li>Recalls <b>groupings of five</b> that are in numbers <b>to 50</b>.e.g. <b>9 groups of 5 in 47</b></li> <li>Recall the number of <b>groupings of tens</b> that can be made from a <b>three digit</b> number.e.g. tens in 763 is 76</li> <li>Knows the number of <b>hundreds in centuries and thousands</b> e.g. hundreds in 800 is 8, and in 4000 is 40</li> <li><b>Round three digit</b> whole numbers to the <b>nearest 10 or hundred</b></li> </ul>

Stage Six	Stage Seven	Stage Eight
<ul style="list-style-type: none"> <li>• Knows <b>groupings within 1000</b> e.g. 240 and 760, 498 and 502</li> <li>• Knows <b>groupings of 2</b> in numbers to 100 and the resulting <b>remainders</b> e.g. twos in 53 is 26 with 1 remainder</li> <li>• Knows <b>groupings of 3</b> in numbers to 100 and the resulting <b>remainders</b> e.g. threes in 17 is 5 with 2 remainder</li> <li>• Knows <b>groupings of 5</b> in numbers to 100 and the resulting <b>remainders</b> e.g. fives in 48 is 9 with 3 remainder</li> <li>• Knows <b>groupings of 10</b> that can be made from a <b>four digit number</b> e.g. tens in 4562 is 456 with 2 remainder</li> <li>• Knows <b>groupings of 100</b> that can be made from a <b>four digit number</b> e.g. hundreds in 7894 is 78 with 94 remainder</li> <li>• Knows <b>tenths in decimals to two places</b> e.g. tenths in 7.2 is 72</li> <li>• Knows <b>hundredths in decimals to two places</b> e.g. tenths in 2.82 is 282</li> <li>• <b>Rounds</b> whole numbers to <b>nearest 10</b></li> <li>• <b>Rounds</b> whole numbers to <b>nearest 100</b></li> <li>• <b>Rounds</b> whole numbers to <b>nearest 1000</b></li> <li>• <b>Rounds decimals</b> with up to <b>two decimal places</b> to the <b>nearest whole number</b></li> </ul>	<ul style="list-style-type: none"> <li>• Knows <b>groupings of 4</b> in numbers to 100 and the resulting <b>remainder</b> e.g. fours in 53 is 13 with 1 remainder</li> <li>• Knows <b>groupings of 6</b> in numbers to 100 and the resulting <b>remainder</b> e.g. sixes in 53 is 8 with 5 remainder</li> <li>• Knows <b>groupings of 7</b> in numbers to 100 and the resulting <b>remainder</b> e.g. sevens in 53 is 7 with 4 remainder</li> <li>• Knows <b>groupings of 8</b> in numbers to 100 and the resulting <b>remainder</b> e.g. eights in 53 is 8 with 5 remainder</li> <li>• Knows <b>groupings of 9</b> in numbers to 100 and the resulting <b>remainder</b> e.g. nines in 53 is 5 with 8 remainder</li> <li>• Knows <b>groupings of 10</b> that can be made from a number of up to <b>seven digits</b> e.g. tens in 47562 is 4756</li> <li>• Knows <b>groupings of 100</b> that can be made from a number of up to <b>seven digits</b> e.g. hundreds in 782894 is 7828</li> <li>• Knows <b>groupings of 1000</b> that can be made from a number of up to <b>seven digits</b> e.g. thousandths in 2785671 is 2785</li> <li>• Knows <b>equivalent fractions for halves</b> with <b>denominators up to 100 and 1000</b></li> <li>• Knows <b>equivalent fractions for thirds</b> with <b>denominators up to 100 and 1000</b></li> <li>• Knows <b>equivalent fractions for quarters</b> with <b>denominators up to 100 and 1000</b></li> <li>• Knows <b>equivalent fractions for fifths</b> with <b>denominators up to 100 and 1000</b></li> <li>• Knows <b>equivalent fractions for tenths</b> with <b>denominators up to 100 and 1000</b></li> <li>• <b>Rounds</b> whole numbers and decimals with up to 2 places to the <b>nearest whole number or tenth</b> e.g. 6.49 to 6.5</li> </ul>	<ul style="list-style-type: none"> <li>• Knows the <b>number of tenths</b> that are in a number of up to <b>three decimal places</b></li> <li>• Knows the <b>number of hundredths</b> that are in a number of up to <b>three decimal places</b></li> <li>• Knows the <b>number of one-thousandths</b> that are in a number of up to <b>three decimal places</b></li> <li>• Knows what happens when a <b>whole number or decimal</b> is <b>multiplied by a power of 10</b></li> <li>• <b>Rounds decimals</b> to the nearest 100, 10, 1, tenth, or hundredth</li> </ul>