

Autumn 1	Year 3	Year 4
<p><b>Place value</b></p>	<ul style="list-style-type: none"> <li>count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</li> <li>recognise the place value of each digit in a 3-digit number (100s, 10s, 1s)</li> <li>compare and order numbers up to 1,000</li> <li>identify, represent and estimate numbers using different representations</li> <li>read and write numbers up to 1,000 in numerals and in words</li> <li>solve number problems and practical problems involving these ideas</li> </ul>	<ul style="list-style-type: none"> <li>count in multiples of 6, 7, 9, 25 and 1,000</li> <li>find 1,000 more or less than a given number</li> <li>count backwards through 0 to include negative numbers</li> <li>recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)</li> <li>order and compare numbers beyond 1,000</li> <li>identify, represent and estimate numbers using different representations</li> <li>round any number to the nearest 10, 100 or 1,000</li> <li>solve number and practical problems that involve all of the above and with increasingly large positive numbers</li> <li>read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value</li> </ul>
<p><b>Small steps</b></p>	<p>Represent numbers to 100                      Partition numbers to 100                      Number line to 100                      Hundreds                      Represent numbers to 1,000                      Partition numbers to 1,000                      Flexible partitioning of numbers to 1,000                      Hundreds, tens and ones                      Find 1, 10 or 100 more or less                      Number line to 1,000                      Estimate on a number line to 1,000                      Compare numbers to 1,000                      Order numbers to 1,000                      Count in 50s</p>	<p>Represent numbers to 1,000                      Partition numbers to 1,000                      Number line to 1,000                      Thousands                      Represent numbers to 10,000                      Partition numbers to 10,000                      Flexible partitioning of numbers to 10,000                      Find 1, 10, 100, 1,000 more or less                      Number line to 10,000                      Estimate on a number line to 10,000                      Compare numbers to 10,000                      Order numbers to 10,000                      Roman numerals                      Round to the nearest 10                      Round to the nearest 100                      Round to the nearest 1,000                      Round to the nearest 10, 100 or 1,000</p>
<p><b>Vocabulary and resources</b></p>	<p>Hundreds, tens, ones, represent, digit, partition, addition, whole, part, identify, estimate, position, interval, multiple, placeholder, value, exchange, numerals, words, more, less, compare, greater than, less than, order,                      Place value counters, base 10, bead strings, straws, numicon, digit cards, part whole models, number lines, tens frames, arrow cards</p>	<p>Thousands, Hundreds, tens, ones, represent, digit, partition, addition, whole, part, identify, estimate, position, interval, multiple, placeholder, value, exchange, numerals, words, more, less, compare, greater than, less than, order, Roman numerals, round to nearest                      Place value counters, base 10, bead strings, straws, numicon, digit cards, part whole models, number lines, tens frames, arrow cards</p>
<p><b>Addition and subtraction</b></p>	<ul style="list-style-type: none"> <li>add and subtract numbers mentally, including:                             <ul style="list-style-type: none"> <li>a three-digit number and 1s</li> <li>a three-digit number and 10s</li> <li>a three-digit number and 100s</li> </ul> </li> <li>add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction</li> </ul>	<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>

	<ul style="list-style-type: none"> <li>estimate the answer to a calculation and use inverse operations to check answers</li> </ul> <p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</p>	
<p><b>Small steps</b></p>	<p>Apply number bonds within 10            Add and subtract 1s            Add and subtract 10s            Add and subtract 100s            Spot the pattern            Add 1s across a 10            Add 10s across a 100            Subtract 1s across a 10            Subtract 10s across a 100            Make connections            Add two numbers (no exchange)            Subtract two numbers (no exchange)            Add two numbers (across a 10)            Add two numbers (across a 100)            Subtract two numbers (across a 10)            Subtract two numbers (across a 100)            Add 2-digit and 3-digit numbers            Subtract a 2-digit number from a 3-digit number            Complements to 100            Estimate answers            Inverse operations            Make decisions</p>	<p>Add and subtract 1s, 10s, 100s and 1,000s            Add up to two 4-digit numbers - no exchange            Add two 4-digit numbers - one exchange            Add two 4-digit numbers - more than one exchange            Subtract two 4-digit numbers - no exchange            Subtract two 4-digit numbers - one exchange            Subtract two 4-digit numbers - more than one exchange            Efficient subtraction            Estimate answers            Checking strategies</p>
<p><b>Vocabulary and resources</b></p>	<p>Addition, subtraction, number bonds, whole, part, mentally, calculation, increase, decrease, inverse, operation, multiple, exchange, estimate  <a href="#">Base 10, place value counters, double sided counters, number lines, part whole models, bar models, number cards</a></p>	<p>Addition, subtraction, number bonds, whole, part, mentally, calculation, increase, decrease, inverse, operation, multiple, exchange, estimate, check  <a href="#">Base 10, place value counters, double sided counters, number lines, part whole models, bar models, number cards</a></p>