

Autumn 1	Year 5	Year 6
<p><b>Place value</b></p>	<ul style="list-style-type: none"> <li>• read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit</li> <li>• count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</li> <li>• interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0</li> <li>• round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000</li> <li>• solve number problems and practical problems that involve all of the above</li> <li>• read Roman numerals to 1,000 (M) and recognise years written in Roman numerals</li> <li>• recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li> <li>• round decimals with 2 decimal places to the nearest whole number and to 1 decimal place</li> <li>• read, write, order and compare numbers with up to 3 decimal places</li> </ul>	<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> <li>• round any whole number to a required degree of accuracy</li> <li>• use negative numbers in context, and calculate intervals across 0</li> <li>• solve number and practical problems that involve all of the above</li> <li>• identify the value of each digit in numbers given to 3 decimal places</li> </ul>
<p><b>Small Steps</b></p>	<p>Numbers to 10,000                      Numbers to 100,000                      Numbers to 1,000,000                      Read and write numbers to 1,000,000                      Powers of 10                      10/100/1,000/10,000/100,000 more or less                      Partition numbers to 1,000,000                      Number line to 1,000,000                      Compare and order numbers to 100,000                      Compare and order numbers to 1,000,000                      Roman numerals to 1,000                      Round to the nearest 10, 100 or 1,000                      Round within 100,000                      Round within 1,000,000                      Decimal numbers (tenths, hundredths and thousandths)                      Order and compare decimals                      Round decimals</p>	<p>Numbers to 1,000,000                      Numbers to 10,000,000                      Read and write numbers to 10,000,000                      Powers of 10                      Number line to 10,000,000                      Compare and order any integers                      Round any integer                      Decimal numbers (tenths, hundredths and thousandths)                      Order and compare decimals                      Round decimals</p>
<p><b>Vocabulary and resources</b></p>	<p>Roman numerals, number system, convert, million, hundred-thousand, ten-thousand, thousand, hundred, tens, ones, placeholder, multiple, powers of 10, more, less, partition, compare, order, round, 2/3 decimal places, tenths, hundredths, thousandths  <a href="#">Base 10, place value counters, place value charts, part-whole models, Gattegno charts</a></p>	<p>Ten-million, million, hundred-thousand, ten-thousand, thousand, hundred, tens, ones, placeholder, multiple, powers of 10, more, less, partition, compare, order, round, integer, 2/3 decimal places, tenths, hundredths, thousandths  <a href="#">Base 10, place value counters, place value charts, part-whole models, Gattegno charts</a></p>
<p><b>Addition and subtraction</b></p>	<ul style="list-style-type: none"> <li>• add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</li> <li>• add and subtract numbers mentally with increasingly large numbers</li> <li>• use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy</li> </ul>	<ul style="list-style-type: none"> <li>• use their knowledge of the order of operations to carry out calculations involving the 4 operations</li> <li>• solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> <li>• solve problems involving addition, subtraction, multiplication and division</li> </ul>

	<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> <li>• solve problems involving number up to 3 decimal places</li> </ul>	<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>
Small Steps	<p>Mental strategies</p> <p>Add whole numbers with more than four digits</p> <p>Subtract whole numbers with more than four digits</p> <p>Add and subtract decimals</p> <p>Round to check answers</p> <p>Inverse operations (addition and subtraction)</p> <p>Multi-step addition and subtraction problems</p> <p>Compare calculations</p>	<p>Mental calculations and estimation</p> <p>Add and subtract integers</p> <p>Add and subtract decimals</p> <p>Solve multi-step problems</p>
Vocabulary and resources	<p>Mental, number bonds, place value, add, subtract, compensation, adjustment, column, rounding, exchange, calculation, estimate, inverse, approximate,</p> <p>Place value charts, place value counters, bar model, number line</p>	<p>Mental, number bonds, place value, add, subtract, compensation, adjustment, column, rounding, exchange, calculation, estimate, inverse, approximate, integer,</p> <p>Place value charts, place value counters, bar model, number line</p>