

Weeks	Core content coverage (Taken from Woodlands LT maps)	Learning objectives (Taken from NC)	Big Maths Coverage
<b>TERM 1</b>  1-2 <b>Core Number</b> <b>And Problem Solving</b> Calculation methods	<ul style="list-style-type: none"> <li>Formal methods of calc.               <ul style="list-style-type: none"> <li>Word problems - 2 step - Based on calc, taught</li> </ul> </li> </ul> <b>Big Maths</b> <ul style="list-style-type: none"> <li>Read, write, order and compare numbers to 1,000,000</li> </ul>	<ul style="list-style-type: none"> <li>add and subtract whole numbers with more than 4 digits, including using efficient written methods (columnar addition and subtraction)</li> <li>solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</li> </ul>	<b>WEEK 1</b> <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>Formal methods of calculation (every week) (addition)</li> </ul> <b>WEEK 2</b> <ul style="list-style-type: none"> <li><b>multiply</b> and divide whole numbers and those involving decimals by 10, 100 and 1000</li> <li>Order numbers with up to three decimal places.</li> <li>Formal methods of calculation (every week) (subtraction)</li> </ul>
3-4 <b>Stats and Number</b> Fractions	<ul style="list-style-type: none"> <li>Compare and order fractions</li> <li>+ &amp; - fractions</li> </ul> <b>Big Maths</b> <ul style="list-style-type: none"> <li>Counting in thths &amp; recognising thths and relate to ths, hths and decimals</li> <li><math>X \div 10, 100</math>, etc</li> <li>Read, write, order and compare numbers to 1,000,000</li> <li>Formal methods of calc.</li> <li>FDP equivalentents</li> </ul>	<ul style="list-style-type: none"> <li>compare and order fractions whose denominators are all multiples of the same number</li> <li>recognise mixed numbers and improper fractions and convert from one form to the other</li> <li>add and subtract fractions with the same denominator and related fractions; write mathematical statements <math>&gt;1</math> as a mixed number (e.g. <math>2/5 + 4/5 = 6/5 = 11/5</math>)</li> </ul>	<b>WEEK 3</b> <ul style="list-style-type: none"> <li>read, write, order and compare numbers with up to three decimal places</li> <li>multiply and <b>divide</b> whole numbers and those involving decimals by 10, 100 and 1000</li> <li>Formal methods of calculation (every week) (addition and subtraction)</li> </ul> <b>WEEK 4</b> <ul style="list-style-type: none"> <li>recognise the per cent symbol (%) and understand that per cent relates to “number of parts per hundred”, and write percentages as a fraction with denominator hundred, and as a decimal fraction</li> <li>Formal methods of calculation (every week) (multiplication - grid)</li> </ul>

<p>5 <b>Geometry and Number</b> <b>And</b> <b>Measure and Number</b> Rounding</p>	<ul style="list-style-type: none"> <li>Rounding whole numbers up to 1,000,000</li> <li>Roman numerals</li> </ul> <p><b>Big Maths</b></p> <ul style="list-style-type: none"> <li>Identify factors, multiples, <b>prime numbers</b>, prime factors and composite numbers.</li> <li>FDP equivalents</li> <li>Formal methods of calc.</li> </ul>	<ul style="list-style-type: none"> <li>read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</li> <li>round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</li> <li>round decimals with two decimal places to the nearest whole number and to one decimal place</li> </ul>	<ul style="list-style-type: none"> <li>recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)</li> <li>know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</li> </ul>
<p>6 <b>Geometry and Number</b> Shapes</p>	<ul style="list-style-type: none"> <li>Identify 3d shapes from 2d representations</li> <li>Distinguish regular and irregular</li> </ul> <p><b>Big Maths</b></p> <ul style="list-style-type: none"> <li>Place value</li> <li>Count forwards or backwards in steps of powers of 10 from any given number</li> </ul>	<ul style="list-style-type: none"> <li>identify 3-D shapes, including cubes and cuboids, from 2-D representations</li> <li>distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> </ul>	<ul style="list-style-type: none"> <li>count forwards or backwards in steps of powers of 10 for any given number up to 1000000</li> <li>count forwards and backwards with positive and negative whole numbers through zero</li> </ul>
<p>7 <b>Core Number</b> <b>And</b> <b>Problem Solving</b> Division Multiples and Factors</p>	<ul style="list-style-type: none"> <li>Identify factors, multiples, prime numbers, prime factors and composite numbers.</li> <li>Formal methods of calc.</li> <li>Mental methods of calculation</li> </ul> <p><b>Big Maths</b></p> <ul style="list-style-type: none"> <li>Count forwards or backwards in steps of powers of 10 from any given number</li> <li>Formal methods of calc.</li> </ul>	<ul style="list-style-type: none"> <li>identify multiples and factors, including finding all factor pairs</li> <li>establish whether a number up to 100 is prime and recall prime numbers up to 19</li> <li>divide numbers up to 4 digits by a one-digit number using the efficient written method of short division and interpret remainders appropriately for the context</li> </ul>	<ul style="list-style-type: none"> <li>multiply and divide numbers mentally drawing upon known facts</li> </ul>

Weeks <b>TERM 2</b>	Core content coverage (Taken from Woodlands LT maps)	Learning objectives (Taken from NC)	Big Maths Coverage
1 <b>Measure and Number</b>	<ul style="list-style-type: none"> <li>• Perimeter of composite rectilinear shapes</li> <li>• Calculate area of rectilinear shapes</li> <li>• Estimate area of irregular shapes</li> </ul> <p><b>Big Maths</b></p> <ul style="list-style-type: none"> <li>• Count forwards or backwards in steps of powers of 10 from any given number</li> <li>• Formal methods of calc.</li> <li>• Mental methods of calculation</li> </ul>	<ul style="list-style-type: none"> <li>• calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes</li> <li>• measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</li> </ul>	<ul style="list-style-type: none"> <li>• count forwards or backwards in steps of powers of 10 for any given number up to 1000000</li> </ul>
2 and 3 <b>Stats and Number</b>	<ul style="list-style-type: none"> <li>• Time reading &amp; converting</li> <li>• Time problems</li> <li>• Timetables</li> <li>• Line graphs</li> </ul> <p><b>Big Maths</b></p> <ul style="list-style-type: none"> <li>• Formal methods of calc.</li> <li>• Mental methods of calculation</li> <li>• Rounding decimals</li> <li>• Identify factors, multiples, prime numbers, prime factors and composite numbers.</li> </ul>	<ul style="list-style-type: none"> <li>• complete, read and interpret information in tables, including timetables.</li> <li>• solve problems involving converting between units of time</li> <li>• solve comparison, sum and difference problems using information presented in line graphs</li> </ul>	<ul style="list-style-type: none"> <li>• identify multiples and factors, including finding all factor pairs</li> <li>• round decimals with two decimal places to the nearest whole number and to one decimal place</li> </ul>

<p>4</p> <p><b>Geometry and Number</b></p>	<ul style="list-style-type: none"> <li>Ratio and scaling (including fractions and simple rates)</li> <li>+ &amp; - fractions</li> <li>X fractions</li> </ul> <p><b>Big Maths</b></p> <ul style="list-style-type: none"> <li>Formal methods of calc.</li> <li><math>X \div 10, 100</math>, etc</li> <li>Count forwards or backwards</li> </ul>	<ul style="list-style-type: none"> <li>add and subtract fractions with the same denominator and related fractions; write mathematical statements <math>&gt;1</math> as a mixed number (e.g. <math>2/5 + 4/5 = 6/5 = 11/5</math>)</li> <li>multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li> </ul> <p><i>(Pupils should connect multiplication by a fraction to using fractions as operators, and to division, building on work from previous years. This relates to scaling by simple fractions.)</i></p>	<ul style="list-style-type: none"> <li>multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</li> <li>count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</li> </ul>
<p>5</p> <p><b>Measure and Number</b></p>	<ul style="list-style-type: none"> <li>Conversion – metric to metric</li> <li>Conversion – metric to imperial</li> </ul> <p><b>Big Maths</b></p> <ul style="list-style-type: none"> <li>Formal methods of calc.</li> <li>Recognise mixed numbers and improper fractions</li> <li>order and compare numbers to 1,000,000</li> </ul>	<ul style="list-style-type: none"> <li>solve problems involving addition and subtraction of units of measure (e.g. length, mass, volume, money) using decimal notation.</li> <li>convert between different units of measure (e.g. kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre)</li> <li>understand and use basic equivalences between metric and common imperial units and express them in approximate terms</li> </ul>	<ul style="list-style-type: none"> <li>recognise mixed numbers and improper fractions and convert from one form to the other</li> <li>read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</li> </ul>
<p>6 and 7</p> <p><b>Geometry and Number</b></p>	<ul style="list-style-type: none"> <li>Angles – identify, estimate, measure and draw</li> <li>Angle facts</li> <li>Translation, reflection</li> </ul> <p><b>Big Maths</b></p> <ul style="list-style-type: none"> <li>Negative numbers</li> <li>Recognise and use</li> </ul>	<ul style="list-style-type: none"> <li>know angles are measured in degrees; estimate and</li> <li>measure them and draw a given angle, writing its size in degrees (<math>^{\circ}</math>) identify: <ul style="list-style-type: none"> <li>multiples of <math>90^{\circ}</math></li> <li>angles at a point on a straight line and <math>1/2</math> a turn (total <math>180^{\circ}</math>)</li> <li>angles at a point and one whole turn</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero</li> <li>recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)</li> </ul>

	square numbers and cubed numbers. <ul style="list-style-type: none"><li>• Formal methods of calc.</li></ul>	(total $360^\circ$ ) <ul style="list-style-type: none"><li>○ reflex angles, and</li><li>○ compare different angles</li></ul> <ul style="list-style-type: none"><li>• identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</li></ul>	
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