



# Wheatlands Primary School

## Curriculum Overview - Year 5



### Autumn Term

#### Week: NC Programme Of Study and Learning Objectives:

Week:	NC Programme Of Study and Learning Objectives:
1	<b>Place Value:</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>• 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 zero.</li><li>• Round any number up to 1000000 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 1000 (M) and recognise years written in Roman numerals.</li></ul>
2	
3	
4	<b>Addition and Subtraction:</b> <ul style="list-style-type: none"><li>• Add and subtract numbers mentally with increasingly large numbers.</li><li>• Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). <b>(Written Calculation Policy).</b></li><li>• Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</li><li>• Solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why.</li></ul>
5	
6	<b>Statistics:</b> <ul style="list-style-type: none"><li>• Solve comparison, sum and difference problems using information presented in a line graph.</li><li>• Complete, read and interpret information in tables including timetables.</li></ul>
7	
8	<b>Multiplication and Division:</b> <ul style="list-style-type: none"><li>• Multiply and divide numbers mentally drawing upon known facts.</li><li>• Multiply and divide whole numbers by 10, 100 and 1000.</li><li>• Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</li><li>• Recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3)</li><li>• Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</li><li>• Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</li><li>• Establish whether a number up to 100 is prime and recall prime numbers up to 19.</li></ul>
9	
10	<b>Measurement (Perimeter and Area):</b> <ul style="list-style-type: none"><li>• Measure and calculate the perimeter of composite rectilinear shapes in cm and m.</li><li>• Calculate and compare the area of rectangles (including squares), and including using standard units, <math>\text{cm}^2</math>, <math>\text{m}^2</math>, estimate the area of irregular shapes.</li></ul>
11	



**Wheatlands Primary School**  
**Curriculum Overview - Year 5**



**Spring Term**

**Week: NC Programme Of Study and Learning Objectives:**

1	<b>Multiplication and Division:</b> <ul style="list-style-type: none"><li>• Multiply and divide numbers mentally drawing upon known facts.</li><li>• Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for two-digit numbers. <b>(Written Calculation Policy)</b>.</li><li>• Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. <b>(Written Calculation Policy)</b>.</li><li>• Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign.</li></ul>
2	
3	
4	<b>Fractions:</b> <ul style="list-style-type: none"><li>• Compare and order fractions whose denominators are multiples of the same number.</li><li>• Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.</li><li>• Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements <math>&gt;1</math> as a mixed number.</li><li>• Add and subtract fractions with the same denominator and denominators that are multiples of the same number.</li><li>• Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.</li></ul>
5	
6	
7	
8	
9	
10	<b>Decimals and Percentages:</b> <ul style="list-style-type: none"><li>• Read, write, order and compare numbers with up to three decimal places.</li><li>• Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</li><li>• Round decimals with two decimal places to the nearest whole number and to one decimal place.</li><li>• Solve problems involving number up to three decimal places.</li><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 100, and as a decimal.</li><li>• Solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25.</li></ul>
11	



# Wheatlands Primary School

## Curriculum Overview - Year 5



### Summer Term

Week:	NC Programme Of Study and Learning Objectives:
1	<b>Decimals:</b>
2	<ul style="list-style-type: none"><li>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</li></ul>
3	<ul style="list-style-type: none"><li>Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answers as one, tenths and hundredths.</li></ul>
4	<ul style="list-style-type: none"><li>Solve simple measure problems involving fractions and decimals to two decimal places.</li><li>Convert between units of measure.</li></ul>
5	<b>Geometry (Properties Of Shape):</b>
6	<ul style="list-style-type: none"><li>Identify 3D shapes, including cubes and other cuboids, from 2D representations.</li></ul>
7	<ul style="list-style-type: none"><li>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</li><li>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li><li>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</li><li>Draw given angles, and measure them in degrees (<math>^{\circ}</math>).</li><li>Identify: angles at a point and one whole turn (total <math>360^{\circ}</math>), angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total <math>180^{\circ}</math>) other multiples of <math>90^{\circ}</math>.</li></ul>
8	<b>Geometry (Position and Direction):</b> <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>
9	<b>Measurement (Converting Units):</b>
10	<ul style="list-style-type: none"><li>Convert between different units of metric measure (for example, km and m; cm and m; cm and mm; g and kg; l and ml).</li><li>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</li><li>Solve problems involving converting between units of time.</li></ul>
11	<b>Measurement (Volume):</b> <ul style="list-style-type: none"><li>Estimate volume and capacity.</li><li>Use all four operations to solve problems involving measure.</li></ul>