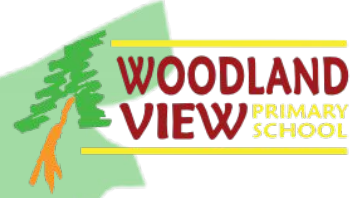




Year 5 Maths

Long Term Overview



Autumn Term

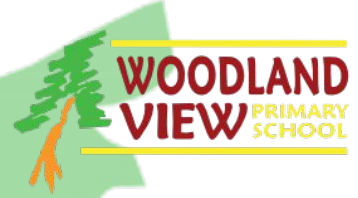
Wk	Unit	Learning content
1	Number Place Value	<ul style="list-style-type: none"> • Read and understand Roman numerals to 1000 • Read and write numbers to 1,000,000 • Understand and use the powers of 10 • Say a number that is 10/100/1,000/10,000 /100,000 more or less than a given number • Partition numbers to 1,000,000 • Place numbers on number line to 1,000,000 • Compare and order numbers to 100,000 and then 1,000,000 • Round numbers to the nearest 10, 100 or 1,000 within 1,000,000
2		
3		
4	Number Addition and Subtraction	<ul style="list-style-type: none"> • Mentally calculate sums and differences using partitioning • Use the column method to add and subtract whole numbers with more than 4 digits • Use rounding to check answers • Understand and use the knowledge that addition is commutative and subtraction is not • Use inverse operations to find unknown numbers • Solve multi-step addition and subtraction problems
5		
6	Number Multiplication and Division A	<ul style="list-style-type: none"> • Understand that a multiple is the result of multiplying a number by a positive number • Find common multiples of any pair of numbers • Identify factors of a given number • Find common factors of any pair of numbers • Know that numbers with exactly two factors are prime numbers • Know and understand square and cube numbers • Multiply and divide numbers by 10, 100 and 1000 • Multiply and divide by multiples of 10, 100 and 1000, breaking calculations down into a series of easier calculating
7		
8		
9	Number Fractions A	<ul style="list-style-type: none"> • Find fractions that are equivalent to unit and non-unit fractions • Recognise equivalent fractions • Convert improper fractions to mixed numbers and vice versa • Compare and order fractions that are less than 1 • Compare and order fractions that are greater than 1 • Add and subtract fractions with the same denominator • Add fractions (where denominators are linked) within 1, with a total greater than one, to a mixed number and add two mixed numbers • Subtract fractions with linked denominators, from a mixed number and subtract two mixed numbers
10		
11		
12		

Please note that teachers may need to adapt these plans to address the needs of their classes so the weeks/order may not always correlate.



Year 5 Maths

Long Term Overview



Spring Term

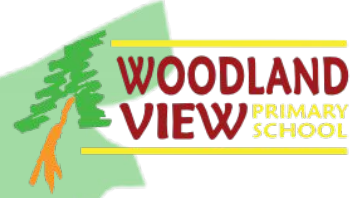
Wk	Unit	Learning content
1	Number Multiplication and Division B	<ul style="list-style-type: none"> • Multiply up to a 4-digit number by a 1-digit number using short multiplication • Multiply up to a 4-digit number by a 2-digit number using long multiplication • Use short division to divide a 4-digit number by a 1-digit number including those with remainders • Solve problems with multiplication and division
2		
3		
4	Number Fractions B	<ul style="list-style-type: none"> • Multiply a fraction by an integer • Multiply a mixed number by an integer • Calculate a fraction of a quantity • Find fractions of an amount • Find the whole where a fraction is given • Understand the connection between finding a fraction of an amount and multiplying a fraction by an integer
5		
6	Number Decimals and Percentages	<ul style="list-style-type: none"> • Understand and use decimals with up to 2 decimal places • Recognise equivalent fractions and decimals • Understand thousandths as fractions and decimals • Order and compare decimals with up to 3 decimal places • Round decimals to the nearest whole number and to 1 decimal place • Understand percentages as 'number of parts per 100' • Explore equivalencies between percentages, fractions and decimals (halves, quarters, fifths and tenths)
7		
8		
9	Measurement Perimeter and Area	<ul style="list-style-type: none"> • Calculate the perimeter of rectangles and rectilinear shapes • Calculate the perimeter of any polygons • Calculate the area of rectangles and compound shapes • Estimate the area of non-rectilinear shapes
10		
11	Statistics	<ul style="list-style-type: none"> • Draw, read and interpret line graphs • Read and interpret tables, including two-way tables • Read and interpret timetables
12		

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Year 5 Maths

Long Term Overview



Summer Term

Wk	Unit	Learning content
1	Geometry Shape	<ul style="list-style-type: none"> Understand and use degrees as a unit of measure for a turn Classify angles as acute, obtuse or reflex Estimate the size of a given angle Use a protractor to measure angles up to 180° Draw lines and angles accurately
2		<ul style="list-style-type: none"> Calculate angles around a point using the knowledge that a full turn is 360° Recognise that a straight line is the same as a half turn and that angles on a straight line add up to 180°
3		<ul style="list-style-type: none"> Calculate angles on a straight line Calculate missing lengths and angles in shapes Understand regular and irregular polygons Know properties of 3D shapes
4	Geometry Position and Direction	<ul style="list-style-type: none"> Read and plot coordinates in the first quadrant Solve problems with coordinates Translate shapes on a coordinate grid and understand how the coordinates change
5		<ul style="list-style-type: none"> Recognise lines of symmetry Reflect shapes in horizontal and vertical lines
6	Number Decimals	<ul style="list-style-type: none"> Use known facts to add and subtract decimals within 1 Know complements to 1 Add and subtract decimals across 1
7		<ul style="list-style-type: none"> Use a formal written method to add and subtract decimals with the same number of decimal places Use a formal written method to add and subtract decimals with a different number of decimal places
8		<ul style="list-style-type: none"> Make decisions about which was the most effective method Explore and extend decimal sequences Multiply and divide decimals by 10, 100 and 1000 and apply this knowledge to find missing numbers
9	Number Negative numbers	<ul style="list-style-type: none"> Understand negative numbers Count through zero in 1s and other multiples Compare and order negative numbers Find the difference between positive and negative numbers
10	Measurement Converting Units	<ul style="list-style-type: none"> Understand that 'kilo-' always means one thousand Know that there are 1000g in 1kg and 1000m in 1 km Understand that 'milli-' means one thousandth Know that there are 1000 ml in 1l and 1000mm in 1m
11		<ul style="list-style-type: none"> Convert units of length Convert between metric and imperial units Convert between units of time Use timetables to solve problems that involve calculations with time
12	Measurement Volume	<ul style="list-style-type: none"> Understand that volume is the amount of 3D space an object takes up Measure volume with cubes and compare the volume of shapes Estimate volume and capacity

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