

Year 5 Maths					
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	Autumn 1	Autumn 2	Spring 1		
	Place Value (4 weeks)	Multiplication and division (3 week)	Decimals (2 weeks)		
	Addition and Subtraction (3 weeks)	Shape and angles (2 weeks)	Fractions (2 week)		
	Statistics (1 week)		Multiplication and division (2 week)		
			Fractions and decimals (2 weeks)		
	Summer 1	Summer 2	Summer 2		
	Measurement (4 week)	Percentages 1 week	Converting units 2 weeks and consolidation and objectives recovering		
	Negative numbers 2 weeks				
Objectives					
	<ul style="list-style-type: none">- Read, write, order and compare numbers to at least 1000000 and determine the value of each digit- Count forwards or backwards in steps of powers of 10 for any given number up to 1000000- Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero- Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000- Solve number problems and practical problems that involve all of the above- Read roman numerals to 1000(X) recognise years written in Roman numerals	<ul style="list-style-type: none">- Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers- Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers- Establish whether a number up to 100 is prime and recall numbers up to 19- Multiply numbers up to 4 digits by a one- or two-digit number using formal written method, including long multiplication for two-digit numbers- Multiply and divide numbers mentally drawing upon known facts- 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- Identify 3-D shapes, including cube and other cuboids, from 2-D representations- Know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles- Draw given angles and measure them in degrees- Use the properties of rectangles to deduce related facts and find missing lengths and angles- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles/identity.- Angles at a point and one whole turn (total 360°)- Angles at a point on a straight line and ½ a turn (total 180°)- Other multiples of 90°	<ul style="list-style-type: none">- Decimals up to 2 places- Equivalent fractions and decimals – tenths and hundredths, equivalent fractions and decimals- Thousandths as fractions and decimals, and on a place value chart- Order and compare up to 3 decimal places- 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- Lines of symmetry- Reflection of horizontal and vertical lines- Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements ≥ 1 as a mixed number (e.g. $2\frac{1}{5} + \frac{4}{5} = 6\frac{5}{5} = 1\frac{1}{5}$)- Add and subtract fractions with the same denominator and denominators that are multiples of the same number- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams- Read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$)- Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	<ul style="list-style-type: none">- Multiply and divide whole numbers and those involving decimals by 10, 100and 1000- Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)- Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equal sign- Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates- Round decimals with two decimal places to the nearest whole number and to one decimal place- Read, write, order and compare numbers with up to three decimal places- Solve problems involving number up to three decimal places- 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- Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $1\frac{1}{5}$, $2\frac{1}{5}$, $\frac{4}{5}$ and those with a	<ul style="list-style-type: none">- Kg and km- Mm and ml- Convert between metric and imperial- Convert units of time, units of length- Calculate with timetables- Solve problems involving converting between units of time- Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.