





<u>Maths – Year 6 Termiy Overview</u>			
<u>Autumn</u>			
Place Value	Addition / Subtraction	Multiplication / Division	
- Read, write, order and compare numbers	- Perform mental calculations, including with	- Identify common factors, common	
up to 10,000,000 and determine the value of each digit.	mixed operations and large numbers.	multiples and prime numbers.	
-	- Use knowledge of the order of operations	- Use estimation to check answers to	
- Round any whole number to a required degree of accuracy.	to carry out calculations.	calculations.	
	- Solve addition and subtraction multi-step	- Multiply numbers up to four digits by two	
- Use negative numbers in context, and calculate intervals across zero.	problems in context.	digits using long multiplication.	
		- Divide numbers up to four digits by two	
- Solve number and practical problems that		digits using long and short division,	
involve all of the above.		interpreting remainders as whole numbers,	
		fractions or by rounding as appropriate.	
		- Solve problems involving multiplication and	
		division.	
Fractions		s / Percentages	
- Use common factors to simplify fractions. - Identify the value of each digit in numbers given to t		pers given to three decimal places.	
- Use common multiples to express fractions v	with - Multiply and divide numbers by 10, 100	- Multiply and divide numbers by 10, 100 and 1,000 and give answers up to three	

- the same denominator.
- Compare and order fractions, including fractions bigger than 1.
- Add and subtract mixed numbers and fractions with different denominators.
- Multiply simple pairs of proper fractions, writing the answer in its simplest form.
- Divide proper fractions by whole numbers.

- decimal places.
- Multiply one-digit numbers with up to two decimal places by whole numbers.
- Use written division methods in cases where the answer has up to two decimal places.
- Solve problems which require answers to be rounded to specified degrees of accuracy.
- Associate fractions with division and calculate decimal/fraction equivalents (3/8 = 0.375).
- Recall and use equivalences between simple fractions, decimals and percentages.



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<u>Spring</u>			
Ratio and Proportion	Properties of Shape		
- Solve problems involving the relative sizes of two quantities where missing values can be found by using multiplication and division	- Draw 2-D shapes using given dimensions and angles.		
facts.	- Compare/classify geometric shapes based on properties and size.		
- Solve problems involving the calculation of percentages.	- Illustrate and name parts of a circle, including radius, diameter and circumference (know that diameter is twice the radius).		
- Solve problems involving similar shapes where the scale factor is			
known or can be found.	- Recognise, describe and build simple 3-D shapes (making nets).		
- Solve problems involving unequal sharing and grouping, using knowledge of fractions and multiples.	- Find unknown angles in any triangle/quadrilateral/regular polygon.		
	- Recognise angles where they meet at a point, are on a straight line or are vertically opposite (find missing angles).		
<u>Algebra</u>	Converting Units		
- Use simple formulae.	- Solve problems involving the calculation and conversion of units of		
	measure, using decimal notation up to three decimal places		
- Generate and describe linear number sequences.	(1.234km = 1,234m).		
- Express missing number problems algebraically.	- Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from smaller units		
- Find pairs of numbers that satisfy an equation with two unknowns.	to larger and vice versa.		
- Enumerate possibilities of combinations of two variables.	- Convert between miles and kilometres.		
Perimeter / Area / Volume	Statistics and Problem Solving		
- Recognise that shapes with the same areas can have different perimeters and vice versa.	- Interpret and construct pie charts and line graphs and use them to solve problems.		
- Recognise when it is possible to use formulae for area/volume of shapes.	- Calculate and interpret the mean as an average.		
	Position and Direction		
- Calculate the area of parallelograms and triangles.	- Describe positions on the full coordinate grid (four quadrants).		
- Calculate, estimate and compare the volume of cubes and cuboids using standard units, including cubic centimetres / metres and extending to other units (km and mm etc.).	- Draw and translate simple shapes on a grid, reflecting them in the axis.		



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