Year 6 Maths Curriculum

1	K
1	T

PLACE VALUE	CALCULATIONS	FRACTIONS, DECIMALS and	MEASUREMENT	GEOMETRY	STATISTICS
Use negative numbers in context, and calculate intervals across zero	Perform mental calculations, including with mixed operations and large numbers	Compare and order fractions, including fractions >1	Calculate, estimate and compare volume of cubes and cuboids using standard units, including cm ³ and m ³ and extending to other units such as mm ³ and km ³ .	Recognise, describe and build simple 3-d shapes, including making nets (appears also in drawing and constructing)	Interpret and construct pie charts and use these to solve problems
Read and write numbers up to 10 000000 and determine the value of each digit	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	Identify the value of each digit in numbers given to three decimal places	Recognise that shapes with the same areas can have different perimeters and vice versa	Illustrate and name parts of circles (radius, diameter and circumference) know that the diameter is twice the radius	Interpret and construct line graphs and use these to solve problems
Order and compare numbers up to 10 000 000 and determine	Divide numbers up to 4-digits by a two-digit whole number using the formal written method of	Solve problems which require answers to be rounded to specified degrees of accuracy	Calculate the area of triangles	Draw 2-d shapes using given dimensions and angles	Calculate and interpret the mean as an
the value of each digit	short division		Calculate the area of parallelograms		<u>average</u>
Identify the value of each digit to three decimal places	Divide numbers up to 4-digits by a two-digit whole number using long division	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination	Convert measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places	Compare and classify geometric shapes based on their properties and sizes	
Round any whole number to a required degree of accuracy	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. ³ / ₈)	Recognise when it is possible to use formulae for area and volume of shapes	Find unknown angles in any triangles, quadrilaterals, and regular polygons	
Solve problems which require answers to be rounded to specified degrees of accuracy	Show answers with remainders, as fractions, through rounding or as decimals up to 2dp (appropriate to the context.)	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	Convert between miles and kilometres	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite	

Year 6 Maths Curriculum

Solve number and practical	Identify common factors	Add and subtract fractions with	Solve problems involving the	Find missing angles where	
problems that involve all of	identity common ractors	different denominators and	calculation and conversion of	they meet at a point, are on	
the above	Identify common multiples	mixed numbers, using the	units of measure, using decimal	a straight line, or are	
		concept of equivalent fractions	notation up to three decimal	vertically opposite	
	Identify prime numbers		places where appropriate		
	Use their knowledge of the	Multiply simple pairs of proper		Describe positions on the	
	order of operations to carry out	fractions, writing the answer in		full coordinate grid (all four	
	calculations involving the four	its simplest form		quadrants)	
	<u>operations</u>	(e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$)			
	Use estimation to check	Multiply one-digit numbers		Draw and translate simple	
	answers to calculations and	with up to two decimal places		shapes on the coordinate	
	determine, in the context of a	by whole numbers		plane, and reflect them in	
	problem, levels of accuracy	·		the axes.	
	Solve problems involving	Divide proper fractions by			
	addition, subtraction,	whole numbers			
	multiplication and division	$(e.g. \frac{1}{3} \div 2 = \frac{1}{6})$			
	Multiply one-digit numbers with	Associate a fraction with			
	up to two decimal places by	division and calculate decimal			
	whole numbers	fraction equivalents (e.g.			
		0.375) for a simple fraction			
		(e.g. ³ / ₈)			
	Multiply and divide numbers by				
	10, 100 and 1000 where the				
	answers are up to three decimal				
	<u>places</u>				

Algebra				
Express missing number problems	Find pairs of numbers that satisfy	Enumerate all possibilities of	Use simple formulae	Generate and describe linear
<u>algebraically</u>	number sentences involving two	combinations of two variables		number sequences
	<u>unknowns</u>			

Ratio and proportion				
Solve problems involving the relative sizes	Solve problems involving the calculation	Solve problems involving similar shapes	Solve problems involving unequal sharing	
of two quantities where missing values can	of percentages [for example, of	where the scale factor is known or can be	and grouping using knowledge of fractions	
be found by using integer multiplication and	measures, and such as 15% of 360] and	found	and multiples	
division facts	the use of percentages for comparison			

Year 6 Maths Curriculum

