Year 6 Maths Overview

The principles of Fluency, Problem Solving and Reasoning will be threaded throughout each unit.

Week	1	2	3	4	5	6	7	8	9	10	11	12		13	14
Autumn	Place Value		Four Operations				Fractions			Assessment	D	ecima	als	Position and	
	Previous – Roman numerals to 1000,		Previous – Adding and subtracting numbers to 1,000,000,				Previous – Converting between improper fractions and mixed numbers, finding					Previous – order and compare decimals to 3DP,			Direction
	numbers to 1 millio	n, Round to powers of	estimating, solving inverse problems, solving multistep problems,				equivalents, adding and subtracting where denominators are multiples, multiplying					round decimals up to 3DP to whole and tenths,			Previous – translating
	calculations and differences		multiples and factors, prime, square and cube nur multiplying and dividing by 10, 100 and 1000				Simplify fractions using highest common factor					divide decimals by 10, 100 and 1000			and reflecting shapes in
	Represent numbe	rs to 10 million	 Add and subtract whole numbers of varying size 				 Count forwards and backwards in fractions with same denominators 					 Understand the place 	e value	e of decimals to 3	the first quadrant
	Read and write numbers to 10 million		Make decisions based on best method to use				Count forwards and backwards with fractions where denominators are multiples					decimal places			Read and plot coordinates in the
	 Compare and order numbers to 10 		Multiply a 4 digit number by a 2 digit number				Compare and order fractions where denominators are not multiples					Multiply decimals by 10, 100 and 1000 Divide decimals by 10, 100 and 1000			first quadrant
	million		Use snort division to divide up to 4 digits by 1 and 2 digits Divide numbers using factor links				Compare are order fractions where the numerator is the same Add and subtrast fractions within 1 where the denominators are multiples					 Divide decimals by 10, 100 and 1000 Multiply decimals by whole numbers 			Read and plot
	 Round numbers within 10 million 		Divide a 3 digit number by a 2 digit number using long divisi				Add and subtract fractions within 1 where the denominators are multiples Add and subtract fractions within 1 where the denominators are not multiples				 Divide decimals by whole numbers 			coordinates in all 4	
	 Calculate involving negative numbers 		Divide a 4 digit number by a 2 digit number using long division				 Add and subtract mixed numbers with any denominator 					• Use division to solve problems up to 2 decimal			quadrants
	in a range of contexts, forwards and		Long division	involving remainders,	show as remainder ar	nd fraction	iraction • Solve problems involving adding and subtracting fractions and mixed numbers					places	•		 Translate shapes to
	backwards through zero.		 Long division rounding remainders (context) 				Multiply fractions by whole numbers					Understand the rela	tionship	p between decimals	all 4 quadrants
			Common factors, representing in different ways				Multiply fractions by fractions					and fractions	uladaa	to convert a desired	 Reflect shapes into
			Common multiples (reasoning) Prime and composite to 100				 Divide fractions by whole numbers where numerator is multiple of divisor Divide fractions by whole numbers where no multiples involved 					 Use place value know to a fraction 	wieuge	to convert a decimal	all 4 quadrants using
			Relationship h	Relationship between square and cube numbers			Order of operations with fractions					Know common fract	ion to d	decimal conversions	the x and y axis
			• Order of operations				 Find fractions of amounts and use to solve problems 					• Convert fractions to decimals by making the			
			Efficient mental strategies				• Find the whole from fraction value					denominator 10, 10	0 or 100	00	
			Reason from I	known facts				I				 Convert fractions to 	decima	als using division	
Spring	Perce	entages	Assessment	Alg	ebra	Pe	rimeter, Area and	Assessment		Ratio	Sha	аре			
	Previous – understa	and percentages out of		Previous – conti	inuing sequences,		Volume		Previous – s	solve multiplication	Previous – types of a	ingles, measure with			
	 Do, basic percentage conversions Poscap understanding of percentages 			about numbers in sequence		s – find perimeter and area of	problems involving scaling		protractor, angles in stra	ight line, angles around int	а				
	• Recap understanding of percentages			Understand terms 'input' and 'output'.		comp	ound and irregular shapes,	• Understand the language of			Measure accurately with a protractor				
	Convert fraction to percentages by			Identify 'rule'			and capacity			 Understand link between angles and turns 					
	using equivalent fractions over 100			Work backwards to find input Oration			• Make simple comparisons			 Calculate angles on a straight line and around a 					
	Know equivalents between fractions			Identify and use two-step rules to find area (area (lin	with factors)		point						
	decimals and percentages			Calcula Lise letters to form expressions Calcula		e area and perimeter of	f practically			 Find vertically opposite angles Understand angles in a triangle are 180° and link 					
	• Order FDP by converting			• Understand how $\pm \frac{1}{x}$		ear shapes	Use ratio notation		to straight line	langle are 100 and link					
	 Find percentages of amount (50%, 			Substitute to find values Estin		Estimate	Calculate ratio using models		tio using models	 Introduce hatch marks 					
	25%, 10% and 1%)			Substitute into common formulae by		by coun	ounting		 Enlarge shap 	pes using scale	 Understand link between 	equal sides in triangle			
	 Find percentages of amounts 			Use formulae in contexts Find		• Find are	d areas of right angled triangles		factors and e		and equal angles				
	(multiples of 10 an	nd 5)		Form one-step equations Solve one step equations		(link to	k to rectangle)		Calculate scale factors Make links to find m Inderstand angles		Make links to find missing	g angles in triangles			
	 Use percentages t 	o find missing		• solve one step equations using 4		Use form	Solve ratio and proportion		and proportion	Understand angles in a qu	ne to find missing angles				
	amount			Solve two step equations Find are		a of a parallelogram		problems		Explore interior angles in	polygons				
				Find pairs of values working Find volu		ume of cuboid by counting				Draw shapes accurately					
				systematically		cubes	, ,				 Draw nets of 3D shapes 				
				 Find pairs of values 	s involving multiples	 Use form 	mula to find volume of cuboid								
Summer	Converting	Statistics	Mock	Revision	SATs				APP Mop Up	o/Project Work					
	Units	Previous – line	SATs												
	Previous – convert	graphs and two-way													
	between metric	Read and													
	imperial, timetables	interpret line													
	 Red and 	graphs													
	recognise all	 Draw line graphs 													
	metric measures	 Line graph 													
	 Convert between 	problems													
	metric measures	 Parts of circles 													
	 Calculate with 	 Read and 													
	metric measures	interpret pie													
	 Convert between 	charts													
	miles and km	 Pie charts with 													
	Know imperial	percentages													
	equivalences • Draw pie charts														
		The mean													