Year 5 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	e	Additio	on and Subtraction	Multiplication a	and Division	St	atistics	Area and I	Perimeter	Assessment	Mop up	Investigations
					ous – Adding and subtracting 4 Previous – Children know all multiplication		Previous – tables, pictograms, bar charts Previous – perimete							
	numbers; Roun	numbers; Round to 10, 100 and 1000, Count in 1000s and 25s;			it numbers using expanded and division facts to 12x 12, can multiply 3			ohs, range of scales,	compound shapes, car					
	- Dand and conits o	negative numbers.			thod; mentally adding and numbers, multiply and divide by 100, factor				find and compare area by counting squares.					
				subtracting	tracting multiples of 10, 100 and pairs and multiples, multiply and divide to 3- 1000. digits using formal methods		2.4 h a continua			Measure perimeter using ruler				
	Recap adding and subtracting 10, 100 and 1000 Read and write Roman Numerals to 1000 • A			• Add numb	Id numbers up to 1,000,000 using • Understand multiples		Dood and interpret line graphs		_	Measure rectangular shapes				
					ompact column method • Look for patterns to identify multiples			- Wedsare mo		Measure more comp	· ·			
	Read, write and understand numbers to 100,000				Subtract numbers up to 1,000,000 • Find common multiples			- Calcula		 Calculate perimeter f compound shapes 	rom given sides in			
	compare and order numbers to 100,000				sing compact column method • Identify factors and factor pairs			6 1 11 1 11 11		· · · · · · · · · · · · · · · · · · ·	Find missing lengths to find perimeter in			
					Use knowledge of rounding to stimate and approximate answers • Use patterns to identify factors • Find common factors		factors.	graphs		compound shapes				
	100,000				 imate and approximate answers inverse operations to check Understand and identify prime number 		v primo numbors	5 1 11 11		 Recap finding area by counting squares 				
	ricad, write and anderstand name to 2,000,000			answers						Find area by using lxw formula				
				• Solve miss	Solve missing numbers and inverse • Introduce correct notation		•			• Find the area of compound shapes				
		Round numbers to the nearest 10, 100, 1000, 10,000 and		problems, e	blems, e.g I think of a number • Understand cube r		ers			• Find the area of irregular shapes (using				
	,	100,000 to 1 million.			multi-step problems using • Identify correct notation		grids to support estin							
		countries was an a backwar as moraum 8 meganite manners		addition an	• Multiply numbers by 10, 100 and 1000			girds to support estimation,		,				
		Know the difference between positive and negative numbers			 Divide numbers by 10, 100 and 1000 Multiply and Divide with multiples of 10, 									
	 Simple addition terms of less and 		ing negative numbers (in			100 and 1000	n multiples of 10,							
Spring					Fractions	100 und 1000			Docimals and Borso	ntages	Assessment	Mop up		
Spring		Multiplication and Division Previous – Children know all Previous – Find unit and non-u		l non-unit nar	-unit parts of an amount, add and subtract fractions with the same denominator,			Decimals and Percentages Previous – Recognise tenths and hundredths as decimals, compare		Assessment	wop up			
	multiplication and division facts to			i non unic pui	find equivalent fractions, simplify			and order decimals to 2 DP, Round 1DP to whole number.						
	·			tanding of equ				Know place value of decimals to 2DP						
	using formal methods • Convert improper fractions to mixe				ed numbers			Convert fractions to decimals using concrete and pictorial						
	Multiply 4 digits by 1 digit Convert mixed numbers to improper fractions				representations		·							
	Include use of zero and Count up and down in a given fraction					Convert between fractions and decimals above 1								
		understand effect • Find a missing number in a number sequence				d not	Understand thousandths as a fraction							
	 Multiply 2 2-digit numbers using Compare and order non-unit fractions less than one where denominators are multiples and not. Compare and order non-unit fractions more than one where denominators are multiples and not. 					Understand thousandths as a decimal								
		equipment and area model				Round decimals to 1,2 and 3DP to whole								
	method	Add fractions within one where denominators are multiples				Round decimals with 2 and 3DP to tenths								
		• Add 3 or more fractions where denominators are multiples.				Order and compare decimals up to 3DP								
		y 3-digits by 2-digits • Add fractions giving a total of more than one – convert answers to mixed numbers					Understand percentages out of 100							
	 Mutliply 4-digits by 2-digits Divide 4-digits by 1-digit (no Subtract fractions where denominators are multiples 					Link percentages to fractions and decimals								
	remainders) • Subtract inactions where denomination of the subtract a fraction from a mixed in				·			Find equivalents between fractions, decimals and						
				number where the whole is broken down.		percentages								
	(remainders)	C. bland bar of a decorption												
			Multiply a unit fraction be a second or s	•										
			Multiply a non-unit fract Multiply a mixed number	-										
	 Multiply a mixed number by a whole number Find unit and non-unit fractions of higher multiples 													
		• Understand fractions as operators and their link to fractions of amounts e.g 5 x 3/5												
Summer		Deci	•			Shape		Converting M	leasures (incl. Time)	Position and	Volume	Assessment	Mop up	Investigations
	Add decimals within a whole, understanding place value			Previous – Identifying and comparing angles, names and properties of			ws metric units for all	Direction	 Understand 					
	Subtract decimals within a whole, understanding the place		ce value		quadrilaterals, lines of syr	mmetry	*	ert from larger units to	Previous – coordinates	volume				
	• Find complements to 1 whole up to 3DP			Recap types of angles and turns Introduce reflex angles		• Understand terr	read timetables	in the first quadrant,	 Compare volume 					
	Look for complements when adding mentally.				 Introduce reflex angles Identify angles such as 45°, 135°, 270° using existing knowledge 			n and g to Kg and vice	translating a point	 Estimate volume 				
	Add decimals with the same DP				Introduce a protractor		versa	0 .3	 Read and plot coordinates in the 	 Estimate capacity 				
	Add decimals with different DP			•	acute angles with a protractor		• Understand terr		first quadrant					
				=	re obtuse angles with a protractor			to mm and I to mI and	Reflect shapes in a					
				• Draw lines to the nearest			vice versa	n different metric units	horizontal/vertical					
	Add and subtract decimals and whole numbers				Draw angles to 5° Find relation and leading and				rial measurements	mirror line				
	 Continue decimal sequences and find missing numbers 					issing angles in a straight-line issing angles around a point			nversions between	 Reflection with coordinates 				
	Predict terms in decimal sequences					missing angles around a point tify lengths and angles in a shape, on a grid		metric and impe		Translate a shape				
	Multiply decimals by 10, 100 and 1000				Identify regular and irregular polygons			n different units of	Translate with					
	Divide decimals by 10, 100 and 1000				· -	ntify 3D shapes from their nets, properties, plans and elevations		time		coordinates				
					·			 Read and interp 	ret timetables					