Year 6 Maths Overview

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

<u>Week</u>	1	2	3	4	5	6 7	8	9	10	11	12	13	14
Autumn	1 Place V Previous – Roman n numbers to 1 million, fe 10 to 1 million, ne calculations and Represent numbers t Read and write numb Compare and order n million Round numbers with Calculate involving ne in a range of context: backwards through z	/alue numerals to 1000, Round to powers of gative number d differences to 10 million poers to 10 million numbers to 10 in 10 million egative numbers s, forwards and ero.	Previous – estimating, so common mult mul Add and subtra Make decisions Multiply a 4 dig Use short divisi Divide numbers Divide a 3 digit Divide a 4 digit Long division in Long division rc Common factor Common factor Common multij Prime and com Relationship be Order of operat Efficient menta Reason from kr	posite to 100 htween square and cu tions I strategies hown facts	ng numbers to 1,000, s, solving multistep p ne, square and cuber oy 10, 100 and 1000 varying size od to use : number igits by 1 and 2 digits umber using long div umber using long div umber using long div how as remainder an context) ferent ways be numbers	000, oblems, umbers, Simplify fractions using high Count forwards and backwa Count forwards and backwa Count forwards and backwa Compare and order fraction Compare are order fraction Add and subtract fractions v Add and subtract fractions v Add and subtract mixed nur Solve problems involving ac Multiply fractions by whole m Divide fractions by whole m Order of operations with fractions of amounts a Find fractions of amounts a	Fractions previous – Converting between improper fractions and mixed numbers, finding equivalents, adding and subtracting where denominators are multiples, multiplying fractions and mixed numbers bers, Simplify fractions using highest common factor • Count forwards and backwards in fractions with same denominators • Count forwards and backwards with fractions where denominators are multiples • Count forwards and backwards with fractions where denominators are multiples • Compare and order fractions where denominators are not multiples • Compare are order fractions where the numerator is the same • Add and subtract fractions within 1 where the denominators are not multiples • Add and subtract mixed numbers with any denominator				Decimals Previous – order and compare decimals to 3DP, round decimals up to 3DP to whole and tenths, add and subtract with decimals, multiply and divide decimals by 10, 100 and 1000 • Understand the place value of decimals to 3 decimal places • Multiply decimals by 10, 100 and 1000 • Divide decimals by 10, 100 and 1000 • Multiply decimals by whole numbers • Divide decimals by whole numbers • Use division to solve problems up to 2 decimal places • Understand the relationship between decimals and fractions • Use place value knowledge to convert a decimal to a fraction • Know common fraction to decimal conversions • Convert fractions to decimals by making the denominator 10, 100 or 1000 • Convert fractions to decimals using division	14 Position and Direction Previous – translating and reflecting shapes in the first quadrant • Read and plot coordinates in the first quadrant. • Read and plot coordinates in all 4 quadrants • Translate shapes to all 4 quadrants • Reflect shapes into all 4 quadrants using the x and y axis	
	 Percentages Previous – understand percentages out of 100, basic percentage conversions Recap understanding of percentages out of 100 Convert fraction to percentages by using equivalent fractions over 100 Know equivalents between fractions decimals and percentages Order FDP by converting Find percentages of amount (50%, 25%, 10% and 1%) Find percentages of amounts (multiples of 10 and 5) Use percentages to find missing amount 		Assessment Algebra Previous – continuing sequences, finding missing numbers, reasoning about numbers in sequence Understand terms 'input' and 'output'. Identify 'rule' Work backwards to find input Identify and use two-step rules to find input and output Identify and use two-step rules to find input and output Use letters to form expressions Understand how +/-/x/÷ are expressed Substitute to find values Substitute into common formulae Use formulae in contexts Form one-step equations Solve one step equations Solve two step equations Solve two step equations Find pairs of values working systematically		 Perimeter, Area and Volume Previous – find perimeter and area of compound and irregular shapes, compare volumes, estimate volume and capacity Draw shapes that have the same area (link with factors) Calculate area and perimeter of rectilinear shapes Link to formulae Estimate area of a triangle on a grid by counting Find areas of right angled triangles (link to rectangle) Use formula to calculate area of any triangle Find area of a parallelogram Find volume of cuboid by counting cubes Use formula to find volume of cuboid 	Assessment Ratio (1 week Previous – so multiplicatio problems involving scal • Understand ti language of ratio • Make simple comparisons • Compare ratii and fractions practically • Use ratio notation • Calculate ratii using models • Enlarge shape using scale factors • Calculate scal factors • Solve ratio an proportion problems		k) solveUnits (moved from Sum) Previous – convert between metric units and basic imperial, timetablesaling d the fRed and recognise all metric measuresalios nsRed and recognise all metric measuresalios ansConvert between metric measuresalios elsConvert between metric measuresalio elsConvert between metric measuresalio andConvert between metric measuresalio and between miles and km	 Convert fractions to define the convert fractions the convert of the convert fractions the conver				
Summer	Statistics Previous – line graphs and two-way tables • Read and interpret line graphs • Draw line graphs • Line graph problems • Parts of circles	Revision	Mock SATs	Revision	SATs		1	APP Mop Up/	Project Work				

 Read and interpret pie charts Pie charts with percentages Draw pie charts The mean 			