

Year 4 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 Previous – numbers to 1000, comparing and ordering, counting in 50s and 100s, Roman Numerals to 12, near numbers <ul style="list-style-type: none"> Read and write roman numerals to 100 Round to nearest 10 Round to nearest 100 Count in 1000s Represent 4-digit numbers in a variety of ways Partition 4-digit numbers in a variety of ways Represent and estimate numbers to 10,000 on number line 1000 more or less (linked to add/subtract) Compare 4 digit numbers Order 4 digit numbers Round to nearest 1000 Count in 25s Introduce negative numbers and count back past zero Sequences involving negative numbers 				Addition and Subtraction Previous – mentally add/subtract 1s, 10s or 100s, Add/subtract 3 digit numbers using formal methods. Estimate using near numbers, Check using estimates. <ul style="list-style-type: none"> Mentally add/subtract 1s, 10s, 100s and 1000s (start with equipment, move to mental) Add 2 4-digit numbers (no boundaries) Add 2 4-digit numbers (one boundary) Add 2 4-digit numbers (boundaries) Subtract 2 4-digit numbers (no boundaries) Subtract 2 4-digit numbers (one boundary) Subtract 2 4-digit numbers (boundaries) Choosing efficient subtraction methods Estimating answers Checking using inverses or alternative methods Solve addition and subtraction two step problems, deciding which operations methods to use and why 				Length and Perimeter Previous – measure in cm, m and mm, calculate perimeter and find missing lengths <ul style="list-style-type: none"> Introduce km Convert between m and km Link km to fractions e.g $\frac{1}{4}$ km = Perimeters of shapes on grid Perimeter of a rectangle Missing lengths and length possibilities Perimeters of compound shapes 	Multiplication and Division Previous – 3x, 4x and 8x, Multiplication and Division facts, fact families, comparing facts <ul style="list-style-type: none"> Multiply numbers by 10 Multiply numbers by 100 Divide by 10 Divide by 100 Multiply by 1 and 0 Divide by 1, itself and 0 Count in, multiply and divide by 6 Know 6x multiplication and division facts Count in, multiply and divide by 9 Know 9x multiplication and division facts Count in, multiply and divide by 7 Know 7x multiplication and division facts Find 2 digit doubles and corresponding halves 			Assessment	Area Previous – measuring in cm, mm and m, converting measurements, perimeter <ul style="list-style-type: none"> Understanding area Counting full squares Making a shape from area (amount of squares) Comparing areas using <, > and = Put areas in order 	Mop up
Spring	Multiplication and Division Previous – Multiply a 2-digit by a 1-digit using expanded column. Divide a 2-digit by a 1-digit including remainders using equipment and bus stop. <ul style="list-style-type: none"> Count in, multiply and divide by 11 and 12 (link to 10x, 1x and 2x) Know 11x and 12x multiplication and division facts Multiply 3 numbers (associative law) Understand the terms multiple and factor. Find factor pairs Mental multiplication (link into related facts, etc) Multiply a 2 digit number by a 1 digit number (exp) Multiply a 3 digit number by a 1 digit number (exp) Divide a 2 digit by a 1 digit in bus stop (no remainders) Divide a 2 digit by a 1 digit in bus stop (with rmdrs) Divide a 3 digit number by a 1 digit number Solve correspondence problems finding all possibilities, using multiplication facts. Solve balancing problems.- more on this 				Fractions Previous – finding equivalent fractions, comparing and ordering unit fractions and with the same denominator, add/subtract with the same denominator, total 1. <ul style="list-style-type: none"> Recap understanding of what a fraction is and find unit and non-unit fractions of shapes, objects and numbers. Identify if fraction are equivalent and find others (diagrams) Find equivalent fraction using multiplication and division Simplify fractions Understand that fractions can go over 1. Count in fractions, linking with whole numbers Add/subtract fractions with the same denominator where the answer is over 1 Subtract fractions from whole amounts Find non-unit fractions of an amount. Use parts to calculate the whole 				Decimals Previous – know tenths as decimals <ul style="list-style-type: none"> Recognise tenths and hundredths using hundred square Recognise tenths as decimals Tenths on place value grid Tenths on number line Divide 1 digit by 10 Divide 2 digits by 10 Understand link between tenths and hundredths Count in hundredths Recognise hundredths and decimals Hundredths on place value grid Hundredths on number line Divide 1 or 2 digits by 100 			Assessment	Position and Direction Previous – know clockwise, anti-clockwise, directional terms, horizontal and vertical. <ul style="list-style-type: none"> Introduce coordinates Describe position on grid Draw on a grid by plotting points Move one point on a grid Describe movement 		
Summer	Decimals <ul style="list-style-type: none"> Make a whole from tenths and hundredths Read and write decimals Understand the value of each digit Compare decimals up to 2 DP Order decimals up to 2 DP Round 1 DP to nearest whole number Decimal equivalents to halves and quarters 	Money Previous – value of coins and notes, calculate with money (separate notation), change, convert between £ and p. <ul style="list-style-type: none"> Write money using decimal notation Convert between £ and p using decimal notation Order money in different notations Estimate money using rounding Calculate with money using all 4 operations Solve problems 	Properties of Shape Previous – right-angles, acute and obtuse, horizontal and vertical lines of symmetry, identify and sort 2D and 3D shapes <ul style="list-style-type: none"> Use right-angle checker to identify if angle is acute or obtuse Know straight line is 180° Compare and order angles Identify and sort types of triangles Identify and sort quadrilaterals Identify all lines of symmetry in 2D shapes Complete symmetrical patterns and shapes 				Statistics Previous – pictograms, bar charts and tables. Collecting and presenting information <ul style="list-style-type: none"> Interpret information from bar charts, pictograms, tables, etc. Gather data using tally charts and present in bar chart Use addition and subtraction to compare and solve problems. Range of scales and conversions Introduce line graphs to show time. Tell the story of the graph Solve problems linked to line graphs 	Time Previous – time to nearest minute, read 24 hour and 12 hour clocks, time durations, start and end times. <ul style="list-style-type: none"> Covert between time measures (use multiplication) Convert from analogue to 12 hour Convert from analogue to 24 hour Convert between 12 hour and 24 hour. Compare times and find durations 	Assessment	Investigations					

