

Year 5 – Summer Term

Some units such as Statistics and single objectives within repeated units such as Imperial measures are new to this term; most units revise previous content and then apply these skills at an increasingly challenging level, incorporating more opportunities for the children to solve problems, investigate, hypothesise, explain and reason about Maths; there is also more of a focus on synthesising skills, for example revising Venn diagrams through shape; revising multiplication and division through Imperial measure

Unit 1	Unit 2	Unit 3	Activity week	Unit 4
Place value	4 operations (money)	Fractions/decimals/percentage		Statistics
<ul style="list-style-type: none"> • Read, write and partition numbers to one million • Mentally add and subtract powers of 10 and multiples of them • Round numbers to the nearest 10, 100, 1000, 10,000, 100,000 • Round decimals to nearest whole, to 1d.p. and to 2 d.p. • Compare and order values including whole to 100,000, decimal to two places and negative numbers • Solve problems with negative numbers in real-life contexts, including finding difference • Interpret Roman numerals beyond 1000 	<ul style="list-style-type: none"> • Use column addition to add and subtract decimal numbers (including 5 – 3.78) • Use knowledge of place value to multiply and divide by 10, 100, 1000 (incl. decimals) • Multiply a whole number by a 2-digit number (use approximation to check) • Use formal method to divide, recording answer as a decimal • Solve missing number sentences across all 4 operations • Convert between pounds and pence to help order amounts of money • Use column addition and subtraction to solve money problems • Solve money problems involving multiplication • Solve money problems involving division • Solve money problems involving a mixture of operations and two-step procedures 	<ul style="list-style-type: none"> • Solve problems involving equivalent fractions • convert between improper fractions and mixed numbers (and vice versa) • compare, add and subtract proper fractions and mixed numbers with and without common denominator • multiply non-unit fractions by an integer and multiply mixed numbers by integers • calculate unit and non-unit fractions of a quantity and the quantity where a fraction of it is known • convert between fractions, decimals and percentages, including for halves, quarters, fifths and tenths, hundredths • Solve percentage problems, using knowledge that 25% = $\frac{1}{4}$ etc 		<ul style="list-style-type: none"> • Interpret information given in different types of bar charts(including bar line graphs/stacked bar charts, multiple bar charts) • Read and interpret information presented on line graphs • Read and interpret data presented in tables/charts • Interpret data presented in tables with several variables
Unit 5		Week 6	Unit 7	Unit 8

Shape, space and position	SUMMER ASSESSMENT	Measure – length/capacity/weight	Measure – perimeter/area/volume	Properties of number	
<ul style="list-style-type: none"> • Classify regular and irregular polygons (in terms of symmetry, length size, position of equal lengths, types of angle) • reason about symmetry and other properties in 2D shapes (include Venn diagrams) • use angle knowledge to estimate their size before measuring • use a protractor and ruler to draw lines and angles accurately • use knowledge of geometry to calculate missing angles in shapes, around a point and on a straight line • solve problems involving coordinates, including translations • reflect shapes from horizontal and vertical lines (on different backgrounds) • identify 3D shapes from 2D drawings and describe their properties 		<ul style="list-style-type: none"> • Convert between metric and imperial units (possible foci: 1 foot = 30cm; 1 yard = 91cm; 1 oz = 28g; 1 mile = 1.6km and 1 inch = 2.5cm) • Use knowledge of effect of multiplying and dividing by 10, 100 and 1000 to convert between metric units • solve problems involving converting units of metric weight (kg and g) • solve problems involving converting units of metric capacity (ml and l) • solve problems involving converting units of metric length (mm, cm and m) 	<ul style="list-style-type: none"> • Calculate the perimeter of a rectilinear shape from given measures • calculate the area of rectilinear shapes from given measures • reason about and calculate missing side lengths from given areas and perimeters • calculate volume of cubes and cuboids 	<ul style="list-style-type: none"> • identify multiples of a number and reason whether a given number is a multiple of that number • explore efficient methods for identifying common multiples of 2 numbers • find efficient method for finding all of the factors of a given number or for finding factors that are common to pairs of numbers • identify and calculate square and cube numbers, linking them to shape work • explain how to check for primes beyond that 20 • use Carroll diagrams to sort numbers according to their properties 	