

Federation of Golden Flatts and Lynnfield Primary Schools

Year 6 - Autumn	Year 6 -Spring	Year 6 - Summer
Small Steps		
Number: Place Value	Number: Decimals	Geometry: Properties of shape
<ul style="list-style-type: none"> • Read numbers up to 10,000,000 and determine the value of each digit. • Write numbers up to 10,000,000 and determine the value of each digit. • Order numbers up to 10,000,000 and determine the value of each digit. • Compare numbers up to 10,000,000 and determine the value of each digit. • Round any whole number to a required degree of accuracy. • Use negative numbers in context • calculate intervals across zero when using negative numbers. • Solve number and practical problems that involve all of the above. 	<ul style="list-style-type: none"> • Identify the value of each digit in numbers given to 3 decimal places • Multiply numbers by 10, giving answers up to 3 decimal places. • Multiply numbers by 100 giving answers up to 3 decimal places. • Multiply numbers by 1,000 giving answers up to 3 decimal places. • Multiply one-digit numbers with up to 2 decimal places by whole numbers. • Use written division methods in cases where the answer has up to 2 decimal places. • Solve problems which require answers to be rounded to specified degrees of accuracy. 	<ul style="list-style-type: none"> • Draw 2-D shapes using given dimensions and angles. • Compare geometric shapes based on their properties and sizes. • Classify geometric shapes based on their properties and sizes. • Find unknown angles in any triangles, quadrilaterals and regular polygons. • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
Number: Addition, Subtraction, Multiplication and Division	Number: Percentages	Statistics
<ul style="list-style-type: none"> • Perform mental calculations, with mixed operations and large numbers including using the commutative and distributive properties. • Use their knowledge of the order of operations to carry out calculations involving the four operations. • Solve addition calculations including multi step problems in contexts, deciding which operations and methods to use and why. • Solve subtraction calculations including multi step problems in contexts, deciding which operations and methods to use and why. • Solve multiplication calculations including multi step problems in contexts, deciding which operations and methods to use and why. • Solve division calculations including multi step problems in contexts, deciding which operations and methods to use and why. • Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication. • Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division interpret remainders as whole number remainders, fractions, or by rounding as appropriate for the context. • Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the context. • Identify common factors • Identify common multiples • Identify prime numbers. • Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy. 	<ul style="list-style-type: none"> • Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison. • Recall and use equivalences between simple fractions, decimals and percentages including in different contexts. 	<ul style="list-style-type: none"> • Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. • Interpret and construct pie charts and use these to solve problems. • Interpret and construct line graphs and use these to solve problems. • Calculate the mean as an average.
Number: Fractions	Number: Algebra	
<ul style="list-style-type: none"> • Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. • Compare and order fractions, including fractions > 1 	<ul style="list-style-type: none"> • Use simple formulae • Generate linear number sequences. • Describe linear number sequences. • Express missing number problems 	

<ul style="list-style-type: none"> • Generate and describe linear number sequences (with fractions) • Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions. • Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example $1/4 \times 1/2 = 1/8$] • Divide proper fractions by whole numbers [for example $1/3 \div 2 = 1/6$]. • Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example $3/8$] • Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. 	<p>algebraically.</p> <ul style="list-style-type: none"> • Find pairs of numbers that satisfy an equation with two unknowns. • Enumerate possibilities of combinations of two variables. 	
Geometry: Position and Direction	Measurement: Converting Units	
<ul style="list-style-type: none"> • Describe positions on the full coordinate grid (all four quadrants). • Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. 	<ul style="list-style-type: none"> • Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. • Use between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3dp. • Read between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3dp. • Write between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3dp. • Convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3dp. • Convert between miles and kilometres. 	
	Measurement: Perimeter, Area and Volume	
	<ul style="list-style-type: none"> • Recognise that shapes with the same areas can have different perimeters and vice versa. • Recognise when it is possible to use formulae for area and volume of shapes. • Calculate the area of parallelograms and triangles. • Calculate volume of cubes and cuboids using standard units, including cm^3, m^3 and extending to other units (mm^3, km^3) • Estimate volume of cubes and cuboids using standard units, including cm^3, m^3 and extending to other units (mm^3, km^3) • Compare volume of cubes and cuboids using standard units, including cm^3, m^3 and extending to other units (mm^3, km^3) 	
	Number: Ratio	
	<ul style="list-style-type: none"> • Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. • Solve problems involving similar shapes where the scale factor is known or can be found. • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. 	