



<p>Autumn</p>	<p><u>Number : Place value</u> (4 weeks)</p> <p>I can read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. I can read, write, order and compare numbers with up to three decimal places. I can identify the value of each digit in numbers given to three decimal places and multiply numbers by 10, 100 and 1000 giving answers up to 3dp. I can round any number (including decimals) to a degree of accuracy. I can interpret negative numbers in context and calculate intervals across zero. I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals. I can solve number and practical problems that involve all of the above.</p>		<p><u>Number : Four number operations</u> (4 weeks)</p> <p>I can add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). I can add and subtract numbers mentally with increasingly large numbers. I can solve addition and subtraction multi step problems in context, deciding which operations and methods to use and why. I can multiply multi-digit number up to 4 digits by a 2 digit number using the formal written method of long multiplication. I can divide numbers up to 4 digits by a 2 digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions or by rounding as appropriate for the context. I can divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context. I can solve multiplication and division multi-step problems in context, deciding which operations and methods to use and why. I understanding the true meaning of the equals sign. I can use various strategies including estimation to check calculations and determine in the context of a problem, an appropriate degree of accuracy. I can perform mental calculations, including with mixed operations and large numbers. I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why I can identify common factors, common multiples and prime numbers. I can recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3). I can use my knowledge of the order of operations to carry out calculations involving the four operations. I can multiply and divide whole and decimal numbers by 10, 100 and 1000.</p>		<p><u>Number : Fractions</u> (4-5 weeks)</p> <p>I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination. I can compare and order fractions, including fractions > 1. I can generate and describe linear number sequences (with fractions) . I can add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions. I can multiply simple pairs of proper fractions, writing the answer in its simplest form [for example $14 \times 12 = 18$]. I can divide proper fractions by whole numbers [for example $13 \div 2 = 16$]. I can associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example 38].</p>	
<p>Spring</p>	<p><u>Number: Decimals</u> (2 weeks)</p> <p>I can identify the value of each digit in numbers given to three decimal places. I can multiply and divide numbers by 10, 100 and 1000 giving answers up to 3dp. I can multiply one digit numbers with up to 2dp by whole numbers. I can use written division methods in cases where the answer has up to two decimal places. I can solve problems which require answers to be rounded to specified degrees of accuracy.</p>	<p><u>Number: Percentages</u> (1 week)</p> <p>I can solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360]. I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p>	<p><u>Number : Algebra</u> (1 week)</p> <p>I can use simple formulae expressed in words. I can generate and describe linear number sequences. I can find pairs of numbers that satisfy number sentences involving two unknowns. I can enumerate possibilities of combinations of two variables.</p>	<p><u>Measurement : converting units</u> (2 week)</p> <p>I can solve problems involving the calculation and conversion of units of measure, using decimal notation to three dp where appropriate. I can use, read, write and 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 three dp) .I can convert between km and miles.</p>	<p><u>Measurement: perimeter, area and volume</u> (2 weeks)</p> <p>I can recognise that shapes with the same areas can have different perimeters and vice versa. I can calculate the area of parallelograms and triangles. I can use the formulae for finding the area and volume of shapes. I can calculate, estimate and compare the volume of cubes and cuboids using standard units (cm³), (m³), (mm³) and (km³).</p>	<p><u>Number : ratio</u> (2 weeks)</p> <p>I can use percentages to compare. I can recall and use equivalences between simple FDP including in different contexts. 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. I can express missing number problems algebraically.</p>
<p>Spring (cont.)</p>	<p><u>Geometry: property of shapes</u> (2 weeks)</p> <p>I can draw 2D shapes using given dimensions and angles. I can recognise, describe and build simple 3D shapes, including making my own nets. I can compare and classify geometric shapes based on their properties, size and angles. I can find missing angles in any triangle, quadrilateral and regular polygon. I can illustrate all the parts of a circle e.g. radius, diameter and circumference. I can find unknown angles where they meet at a point, on a straight line and are vertically opposite.</p>		<p><u>Geometry: Position and direction</u> (1 week)</p> <p>I can describe positions on the full coordinate grid (all four quadrants). I can draw and translate simple shapes on the coordinate plane and reflect them in the axes.</p>	<p><u>Statistics</u> (1 week)</p> <p>I can interpret and construct pie charts and line graphs and use these to solve problems. I can calculate and interpret the mean as an average.</p>		

St. Teresa's R.C Primary School

Doing Little Things Well

Year 6 Long Term Plan



Summer	<u>Revision and consolidation</u>	<u>Investigations</u>	
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