



Year 6 - Term by Term Objectives

| | <i>Week 1</i> | <i>Week 2</i> | <i>Week 3</i> | <i>Week 4</i> | <i>Week 5</i> | <i>Week 6</i> | <i>Week 7</i> | <i>Week 8</i> | <i>Week 9</i> | <i>Week 10</i> | <i>Week 11</i> | <i>Week 12</i> |
|---------------|---------------------------------------|---------------|--|---------------|------------------------|-------------------|---------------------------------------|--|---------------|-----------------------|---|----------------------|
| Autumn | Number : Place Value | | Number : Addition, Subtraction, Multiplication and Division | | | | Fractions | | | | Geometry, position and direction | Consolidation |
| Spring | Number: Decimals | | Number: Percentages | | Number: algebra | | Measuring and converting units | Measurement, perimeter, area and volume | | Number - ratio | | Consolidation |
| Summer | Geometry – Properties of Shape | | Problem solving | | | Statistics | | Transition, investigations | | | | Consolidation |

Term by Term Objectives

Year 6 – Autumn Term

| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | | |
|--|--------|---|--------|--------|--------|--|--------|--------|---------|---|---------|----------------------|--|
| <p>Number – Place Value Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.</p> <p>Round any whole number to a required degree of accuracy.</p> <p>Use negative numbers in context, and calculate intervals across zero.</p> <p>Solve number and practical problems that involve all of the above.</p> | | <p>Number – addition, subtraction, multiplication & division Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p> <p>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.</p> <p>Divide numbers up to 4 digits by a two-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.</p> <p>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.</p> <p>Perform mental calculations, including with mixed operations and large numbers.</p> <p>Identify common factors, common multiples and prime numbers.</p> <p>Use their knowledge of the order of operations to carry out calculations involving the four operations Use estimation to check answers to calculations & determine in the context of the problem, an appropriate method to use.</p> | | | | <p>Number – Fractions Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</p> <p>Compare and order fractions, including fractions > 1.</p> <p>Generate & describe linear number sequences (with fractions).</p> <p>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</p> <p>Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/4 + 1/2 = 3/4$).</p> <p>Divide proper fractions by whole numbers (e.g. $1/3$ divide 2 = $2/3$)</p> <p>Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $3/8$).</p> <p>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p> | | | | <p>Geometry – Position & Direction Describe positions on the full coordinate grid (all four quadrants).</p> <p>Draw & translate simple shapes on the coordinate plane, & reflect them in the axes.</p> | | <p>Consolidation</p> | |

Term by Term Objectives

Year 6 – Spring Term

| Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|--|--|--|--|--|---------------|--------|--------|---------|---------|---------|
| <p>Number – Decimals</p> <p>Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.</p> <p>Multiply one-digit numbers with up to two decimal places by whole numbers.</p> <p>Use written division methods in cases where the answer has up to two decimal places.</p> <p>Solve problems which require answers to be rounded to specified degrees of accuracy.</p> | <p>Number – Percentages</p> <p>Solve problems involving the calculation of percentages (e.g. of measures such as 15% of 360) and the use of percentages for comparisons.</p> <p>Recall and use equivalences between simple FDP including in different contexts.</p> | <p>Number – Algebra</p> <p>Use simple formulae.</p> <p>Generate and describe linear number sequences.</p> <p>Express missing number problems algebraically.</p> <p>Find pairs of numbers that satisfy an equation with two unknowns.</p> <p>Enumerate possibilities of combinations of two variables.</p> | <p>Measurement – converting units</p> <p>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</p> <p>Use, read, write & convert between standard units, converting measurements of length, mass, volume & time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.</p> <p>Convert between miles & kilometres.</p> | <p>Measurement - perimeter area and volume</p> <p>Recognise that shapes with the same areas can have different perimeters and vice versa.</p> <p>Recognise when it is possible to use formulae for area and volume of shapes.</p> <p>Calculate the area of parallelograms and triangles.</p> <p>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic cm (cm^3) & cubic m (m^3), and extending to other units (e.g. mm^3 and km^3).</p> | <p>Number – Ratio</p> <p>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found.</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</p> | Consolidation | | | | | |

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|---|---|--------|--------|--------|---------------------------|---|--------|---|---------|---------|---------|
| <p><u>Geometry – Properties of Shape</u> Draw 2-D shapes using given dimensions and angles.</p> <p>Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</p> | <p><u>Problem solving and revision</u></p> | | | | <p><u>SATs</u></p> | <p><u>Statistics</u> Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.</p> <p>Interpret and construct pie charts and line graphs and use these to solve problems.</p> <p>Calculate and interpret the mean as an average.</p> | | <p><u>Transition to year 7</u></p> | | | |