

Year 6 Long Term / Higher Level Plan

Unit 1			Unit 2			Unit 3														
<p>Number Number and Place Value</p> <p>Read, write, order and compare numbers to 10,000,000 Round numbers with accuracy</p>	<p>Number Addition and Subtraction</p> <p>Add and subtract large numbers mentally Solve multi-step problems</p>	<p>Geometry Properties of shapes</p> <p>Recognise, describe and build simple 3-D shapes, including making nets</p>	<p>Number Multiplication and Division</p> <p>Multiply large numbers with mental or written methods</p>	<p>Number Fractions</p> <p>Different Denominators</p> $\frac{7 \times \frac{1}{2} + 3 \times \frac{2}{7}}{7 \times 2} = \frac{7+6}{14} = \frac{13}{14}$ <p>Use common factors / multiples to simplify / express fractions Compare and order fractions Add and subtract fractions using equivalent fractions</p>	<p>Geometry Position and Direction</p> <p>Describe positions on the full coordinate grid Draw, translate and reflect simple shapes on the coordinate plane</p>	<p>Number Addition and Subtraction</p> <p>Add and subtract whole numbers using columnar addition / subtraction</p>	<p>Number Decimals</p> <p>Identify values of each digit in a number with three decimal places Multiply and divide by 10, 100 and 1000 Multiply decimals by whole numbers</p>	<p>Measurement Length</p> <p>Calculate and convert between standard units to solve problems and use decimal notation</p>												
Unit 4			Unit 5			Unit 6														
<p>Number Multiplication and Division</p> <p>Identify common factors, multiples and prime numbers Use formal written method to calculate THHTO ÷ TO</p>	<p>Number Fractions including decimals and percentages</p> <p>Associate a fraction with division and calculate decimal fraction equivalents Use equivalences between FDP</p>	<p>Measurement Time</p> <p>Convert between standard units Calculate speed using compound units</p>	<p>Number Addition and Subtraction, Multiplication and Division including NPV</p> <p>Use negative numbers, calculate intervals and solve multi-step problems Calculate mentally using the four operations</p>	<p>Number Algebra</p> $a + a = 2a$ $a \times a = a^2$ <p>use simple formulae generate and describe linear number sequences express missing number problems algebraically</p>	<p>Geometry Properties of shapes</p> <p>Draw 2D shapes using given dimensions and angles Compare and classify geometric shapes Recognise angles where they meet at a point, are on a straight line or are vertically opposite and find missing angles</p>	<p>Number Multiplication and Division</p> <p>Multiply mentally, including larger numbers Use partitioning, grid method and the expanded written method to calculate HTO X TO</p>	<p>Number Multiplication and Division including Decimals</p> $\begin{array}{r} 23 \\ \times 345 \\ \hline 2070 \end{array}$ <p>Multiply one or two-digit numbers with up to two decimal places by whole numbers</p>	<p>Measurement Mass</p> $1\text{kg} = 1000\text{g}$ $1360 \div 1000 = 1.36$ $\text{so } 1360\text{g} = 1.36\text{kg}$ <p>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate</p>												
Unit 7			Unit 8			Unit 9														
<p>Number Fractions</p> <p>Add, subtract, multiply and divide fractions Solve problems</p>	<p>Ratio and Proportion</p> <p>3 green for every 2 yellow</p> <table border="1"> <tr> <td>green</td> <td>yellow</td> <td>total</td> </tr> <tr> <td>3</td> <td>2</td> <td>5</td> </tr> <tr> <td>6</td> <td>4</td> <td>10</td> </tr> <tr> <td>9</td> <td>6</td> <td>15</td> </tr> </table> <p>Understand, recognise and use ratio and proportion to solve problems involving numbers, shapes and scale drawings or where scale factor is known and can be found</p>	green	yellow	total	3	2	5	6	4	10	9	6	15	<p>Statistics</p> <p>A pie chart to show mode of transport to school</p> <p>Interpret and construct pie charts and line graphs and use them to solve problems Calculate and interpret the mean as an average</p>	<p>Number Multiplication and Division</p> <p>Divide large numbers using mental and formal written methods</p>	<p>Number Multiplication and Division including Decimals</p> $9 \overline{) 562.459}$ <p>the decimal points are in line</p> <p>Divide numbers with up to two decimal places Use estimation to check answers</p>	<p>Measurement Perimeter and Area</p> <p>Area of a parallelogram = base x perpendicular height</p> <p>Recognise that shapes with the same areas can have different perimeters and vice versa Recognise when it is possible to use formulae for area of shapes Calculate the area of parallelograms and triangles</p>	<p>Number Addition and Subtraction Multiplication and Division</p> <p>Add and subtract using formal written methods Calculate using order of operations</p>	<p>Algebra</p> <p>use simple formulae generate and describe linear number sequences express missing number problems algebraically</p>	<p>Geometry Properties of shapes Parts of circle</p> <p>Draw shapes accurately Illustrate and name parts of a circle</p>
green	yellow	total																		
3	2	5																		
6	4	10																		
9	6	15																		
Unit 10			Unit 11			Unit 12														
<p>Number Multiplication and Division Including Decimals</p> <p>Multiply numbers with up to two decimal places by 2-digit whole numbers Divide numbers with up to two decimal places by 1-digit whole numbers</p>	<p>Number Fractions</p> <p>Add, subtract, multiply and divide fractions Solve problems</p>	<p>Measurement Volume and Capacity</p> $1\text{l} = 1000\text{ml}$ $13600 \div 1000 = 13.6$ $\text{so } 13,600\text{ml} = 13.6\text{litres}$ <p>Calculate and convert between different units Recognise when to use formulae for volume of shapes</p>	<p>Number Addition and Subtraction Multiplication and Division</p> <p>Calculate using order of operations Solve problems</p>	<p>Ratio and Proportion</p> <p>Scale factor 3</p> <p>Understand, recognise and use ratio and proportion to solve problems involving numbers, shapes and scale drawings or where scale factor is known and can be found</p>	<p>Geometry Position and Direction</p> <p>Describe positions on the full coordinate grid Draw, translate and reflect simple shapes on the coordinate plane Plot and label rectangles, parallelograms and rhombuses</p>	<p>Number Multiplication and Division including Decimals</p> <p>Use appropriate methods to multiply and divide whole numbers / numbers with up to 2 decimal places by a one- or two-digit numbers</p>	<p>Number Fractions including Decimals and Percentages</p> <p>Solve problems involving calculation of percentages Associate a fraction with division and calculate decimal fraction equivalents Use equivalences between FDP</p>	<p>Statistics</p> <p>Interpret and construct pie charts and line graphs and use them to solve problems Calculate and interpret the mean as an average</p>												