

Year 6	Summer 1	
Prior Learning	Key Vocabulary	
<b>Objectives:</b>	<b>When else will objective be covered</b>	
<u>Number and Place Value</u> <ol style="list-style-type: none"> <li>1. read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</li> <li>2. round any whole number to a required degree of accuracy</li> <li>3. solve number and practical problems that involve of the above.</li> </ol>	<p>Core objective</p> <p>Core objective</p>	
<u>Addition, subtraction, multiplication and division</u> <ol style="list-style-type: none"> <li>4. multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> <li>5. 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</li> <li>6. perform mental calculations, including with mixed operations and large numbers</li> <li>7. solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> <li>8. solve problems involving addition, subtraction, multiplication and division</li> </ol>	<p>Core objective</p> <p>Core objective</p> <p>Core objective</p> <p>Core objective</p> <p>Core objective</p>	
<u>Fractions (including percentage and decimals)</u> <ol style="list-style-type: none"> <li>9. 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</li> <li>10. multiply simple pairs of proper fractions, writing the answer in its simplest form</li> <li>11. divide proper fractions, writing the answer in its simplest form</li> <li>12. associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, 3/8)</li> </ol>	<p>Core objective</p> <p>6</p> <p>6</p> <p>6</p>	
<u>Ratio and proportion</u> <ol style="list-style-type: none"> <li>13. solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</li> </ol>	<p>1,3,5</p>	
<u>Algebra</u> <ol style="list-style-type: none"> <li>14. Use simple formulae</li> <li>15. generate and describe simple linear number sequences</li> <li>16. express missing number problems algebraically</li> <li>17. find pairs of numbers that satisfy an equation with two unknowns</li> <li>18. enumerate possibilities of combinations of two variables</li> </ol>	<p>6</p> <p>6</p> <p>6</p> <p>6</p> <p>6</p>	
<u>Measurement</u> <ol style="list-style-type: none"> <li>19. solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate</li> <li>20. 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 up to three decimal places</li> <li>21. recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>22. recognise when it is possible to use a formulae for area and volume of shapes</li> <li>23. calculate the area of parallelograms and triangles</li> </ol>	<p>4,5</p> <p>4,5</p> <p>5,6</p> <p>5,6</p> <p>5,6</p>	



Year 6	Summer 2	
Prior Learning	Key Vocabulary	
<b>Objectives:</b>	<b>When else will objective be covered</b>	
<u>Number and Place Value</u> <ol style="list-style-type: none"> <li>1. read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</li> <li>2. solve number and practical problems involving the above</li> </ol>	Core objective Core objective	
<u>Addition, subtraction, multiplication and division</u> <ol style="list-style-type: none"> <li>3. multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</li> <li>4. 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</li> <li>5. perform mental calculations, including with mixed operations and large numbers</li> <li>6. solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</li> <li>7. solve problems involving addition, subtraction, multiplication and division</li> </ol>	Core objective Core objective Core objective Core objective	
<u>Fractions (including percentage and decimals)</u> <ol style="list-style-type: none"> <li>8. 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</li> <li>9. multiply simple pairs of proper fractions, writing the answer in its simplest form</li> <li>10. divide proper fractions, writing the answer in its simplest form</li> <li>11. associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375) for a simple fraction (for example, 3/8)</li> <li>12. solve problems which require answers to be rounded to specified degrees of accuracy</li> <li>13. multiply one digit numbers with up to two decimal places by whole number</li> </ol>	Core objective 5 5 5 3 3,4	
<u>Ratio and proportion</u> <ol style="list-style-type: none"> <li>14. solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</li> <li>15. solve problems involving similar shapes where the scale factor is known or can be found</li> <li>16. solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</li> </ol>	3,6 2,6 3,6	
<u>Algebra</u> <ol style="list-style-type: none"> <li>17. Use simple formulae</li> <li>18. generate and describe simple linear number sequences</li> <li>19. express missing number problems algebraically</li> <li>20. find pairs of numbers that satisfy an equation with two unknowns</li> <li>21. enumerate possibilities of combinations of two variables</li> </ol>	4,5,6 4,5,6 4,5,6 4,5,6 4,5,6	
<u>Measurement</u> <ol style="list-style-type: none"> <li>22. convert between miles and kilometres</li> <li>23. recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>24. recognise when it is possible to use a formulae for area and volume of shapes</li> <li>25. calculate the area of parallelograms and triangles</li> </ol>	5,6 5,6 5,6	

26. calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres ( $\text{cm}^3$ ) and cubic metres ( $\text{m}^3$ ), and extending to other units [for example, $\text{mm}^3$ and $\text{km}^3$ ].	5,6
<u>Geometry- properties of shape</u>	
27. illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	6
<u>Geometry- position and direction</u>	
28. draw and translate simple shapes on the coordinates plane and reflect them in the axes	4,6
<u>Statistics</u>	
1. interpret and construct pie charts and line graphs and use these to solve problems	3,4,6
2. calculate and interpret the mean as an average	3,4,6