

Year 6 - End point for the end of the Autumn term

Number and Place Value	Addition, Subtraction, Multiplication and Division	Fractions	Geometry
<ul style="list-style-type: none"> <li>• To read and write numbers to 10,000,000</li> <li>• To order and compare numbers to 10,000,000</li> <li>• To use a number line with numbers up to 10,000,000</li> <li>• To round numbers within 10,000,000</li> <li>• To use negative numbers in context.</li> </ul>	<ul style="list-style-type: none"> <li>• To problem solve using written methods of addition and subtraction</li> <li>• To multiply numbers up to 4 digits by a 2-digit number</li> <li>• To divide numbers up to 4 digits by a 2-digit number</li> <li>• To identify common factors and multiples</li> <li>• To recognise prime numbers up to 100.</li> <li>• To know square and cubes numbers.</li> <li>• To use knowledge of the order of operations to carry out calculations involving the four operations</li> <li>• To use mental calculations</li> <li>• To reason using known facts</li> </ul>	<ul style="list-style-type: none"> <li>• To simplify fractions</li> <li>• To position fractions on a number line</li> <li>• To compare and order fractions</li> <li>• To add and subtract fractions with different denominators.</li> <li>• To problem solve using addition and subtraction of fractions.</li> <li>• To multiply a fraction by a whole number</li> <li>• To multiply a fraction by a fraction</li> <li>• To divide a fraction by a whole number.</li> <li>• To calculate fractions of amounts.</li> <li>• To problem solve with fractions of amounts.</li> </ul>	<ul style="list-style-type: none"> <li>• To plot co-ordinates on a four quadrant grid.</li> <li>• To describe co-ordinates on a four quadrant grid</li> <li>• To draw and translate simple shapes on the coordinate plane, and reflect them in the axes</li> <li>• To reason about shapes with coordinates</li> </ul>

Year 6 - End point for the end of the Spring term					
Number and Place Value	Addition, Subtraction, Multiplication and Division	Measures	Fractions	Algebra	Ratio and Proportion
These skills will be drawn upon for application.	These skills will be drawn upon for application.	<ul style="list-style-type: none"> <li>• Use, read, write and convert between metric and imperial units using decimal notation to up to three decimal places</li> <li>• To problem solve using metric measures</li> <li>• To convert between miles and kilometres</li> <li>• Recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>• To find the area of a parallelogram</li> <li>• To find the area of a triangle.</li> <li>• To solve problem solving questions focussed on area and perimeter</li> </ul>	<ul style="list-style-type: none"> <li>• To multiply and divide by 10,100 and 1000.</li> <li>• To convert decimals to fractions and fractions to decimals</li> <li>• To multiply one-digit numbers with up to two decimal places by whole numbers.</li> <li>• To divide decimals using a formal written method,</li> <li>• To recall and use equivalences between simple fractions, decimals and percentages</li> <li>• To find percentages of amounts.</li> <li>• To convert fractions to percentages</li> <li>• To solve mixed problem solving linked to the above.</li> </ul>	<ul style="list-style-type: none"> <li>• To generate and describe linear number sequences</li> <li>• To express missing number problems algebraically</li> <li>• To use simple formulae</li> <li>• To find pairs of numbers that satisfy an equation with two unknowns</li> <li>• To enumerate possibilities of combinations of two variables</li> </ul>	<ul style="list-style-type: none"> <li>• To identify, name and write equivalent fractions including tenths and hundredths.</li> <li>• To convert improper fractions to mixed numbers and vice versa.</li> <li>• To compare and order fractions whose denominators are all multiples of the same number</li> <li>• To associate a fraction as a division calculation</li> <li>• To add and subtract fractions with</li> </ul>

- To find the volume of a cuboid.

the same denominator and denominators that are multiples of the same number.

- To problem solve using their knowledge of adding and subtracting fractions.
- To multiply proper fractions and mixed numbers by whole numbers.
- To calculate fractions of amounts.
- To use fractions as operators.
- To solve mixed word problems with a focus on multiplication of fractions.
- To read, write, order and compare numbers with up to three decimal places

					<ul style="list-style-type: none"><li>• To read and write decimal numbers as fractions</li><li>• To recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li><li>• To order and compare decimals up to 3 dp.</li><li>• To round decimals with two decimal places to the nearest whole number and to one decimal place</li><li>• To recognise the per cent symbol and understand that it relates to 'number of parts per hundred', and write percentages as a fraction with denominator</li></ul>
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					<p>100, and as a decimal.</p> <ul style="list-style-type: none"><li>• To know percentage and decimal equivalents of <math>\frac{1}{2}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{2}{5}</math>, <math>\frac{4}{5}</math>.</li></ul>
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Year 6 - End point for the end of the Summer term						
Number and Place Value	Addition, Subtraction, Multiplication and Division	Measures	Statistics	Fractions	Geometry	Ratio and Proportion
<ul style="list-style-type: none"> <li>To problem solve using place value skills derived over the year.</li> <li>To problem solve using negative number skills derived over the year.</li> <li></li> </ul>	<ul style="list-style-type: none"> <li>To problem solve using all four operations, using skills derived over the year.</li> </ul>	<ul style="list-style-type: none"> <li>To problem solve using time skills derived over the course of KS2.</li> </ul>	<ul style="list-style-type: none"> <li>To find the mean.</li> <li>To interpret and construct pie charts and line graphs and use these to solve problems</li> </ul>	<ul style="list-style-type: none"> <li>To problem solve using fractions, decimals and percentages, using skills derived over the year.</li> </ul>	<ul style="list-style-type: none"> <li>To measure angles with a protractor with accuracy.</li> <li>To draw 2-D shapes using given dimensions and angles</li> <li>To find unknown angles in any triangles, quadrilaterals, and regular polygon.</li> <li>To recognise angles that meet at a point, on a straight line, or are vertically opposite, and</li> </ul>	<ul style="list-style-type: none"> <li>To problem solve using ratio and proportion skills derived over the course of the year.</li> </ul>

					<p>find missing angles.</p> <ul style="list-style-type: none"><li>• To name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.</li><li>• To recognise, describe and build simple 3-D shapes, including making nets</li><li>• To problem solve using the position and direction skills derived over the course of the year.</li><li>• To problem solve using properties of shapes, using skills derived</li></ul>	
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