

## Year 6

<b>Autumn</b>	<p style="text-align: center;"><b>Geometry (2 weeks)</b> <b>Shape</b></p> <p>Measure and classify angles. Calculate angles. Vertically opposite angles. Angles in a triangle. Angles in a triangle - special cases. Angles in a triangle - missing angles. Angles in quadrilaterals. Angles in polygons. Circles. Draw shapes accurately. Nets of 3-D shapes.</p>	<p style="text-align: center;"><b>Geometry (1 week)</b> <b>Position and direction</b></p> <p>The first quadrant. Read and plot points in four quadrants. Solve problems with coordinates. Translations. Reflections.</p>	<p style="text-align: center;"><b>Place value (3 weeks)</b> <b>Include decimals steps 1-3 from Spring</b></p> <p>Numbers to 1,000,000. Numbers to 10,000,000. Read and write numbers to 10,000,000. Powers of ten. Number line to 10,000,000. Compare and order any integers. Round an integer. Negative numbers. <b>Place value within 1.</b> <b>Place value - integers and decimals.</b> <b>Round decimals.</b></p>	<p style="text-align: center;"><b>Addition, subtraction, multiplication &amp; division (6 weeks)</b> <b>Include decimals steps 4-9 from Spring</b></p> <p>Add and subtract integers. <b>Add and subtract decimals.</b> Common factors. Common multiples. Rules of divisibility. Primes to 100. Square and cube numbers. Multiply up to a 4-digit number by a 2-digit number <b>(expanded written method).</b> <b>Multiply by 10, 100 and 1,000.</b> <b>Divide by 10, 100 and 1,000.</b> <b>Multiply decimals by integers.</b> Solve problems with multiplication. Divide multi digits by 2-digits <b>(Subtractive chunking).</b> <b>Divide decimals by integers.</b> <b>Multiply and divide decimals in context.</b> Solve problems with division. Solve multi-step problems. Order of operations. Mental calculations and estimation. Reason from known facts.</p>
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<b>Spring</b>	<p style="text-align: center;"><b>Fractions A</b></p> <p>Equivalent fractions and simplifying.  Equivalent fractions on a number line.  Compare and order (denominator).  Compare and order (numerator).  Add and subtract simple fractions.  Add and subtract any two fractions.  Add mixed numbers.  Subtract mixed numbers.  Multi step problems.</p>	<p style="text-align: center;"><b>Fractions B</b></p> <p>Multiply fractions by integers.  Multiply fractions by fractions.  Divide a fraction by an integer.  Mixed questions with fractions.  Fraction of an amount.  Fraction of an amount - find the whole.</p>	<p style="text-align: center;"><b>Fractions, decimals and percentages (2 weeks)</b></p> <p>Decimal and fraction equivalents.  Fractions as division.  Understand percentages.  Fractions to percentages.  Equivalent fractions, decimals and percentages.  Order fractions, decimals and percentages.  Percentage of an amount - one step.  Percentage of an amount - multi step.  Percentages of an amount - missing values.</p>	<p style="text-align: center;"><b>Measurement Converting units (1 week)</b></p> <p>Metric measures.  Convert metric measures.  Calculate with metric measures.  Miles and kilometres.  Imperial measures.</p>	<p style="text-align: center;"><b>Area, perimeter and volume (2 weeks)</b></p> <p>Shapes - same area.  Area and perimeter.  Area of a triangle - counting squares.  Area of right-angles triangle.  Area of any triangle.  Area of a parallelogram.  Volume - counting cubes.  Volume of a cuboid.</p>	<p style="text-align: center;"><b>Algebra (2 weeks)</b></p> <p>1-step function machines.  2-step function machines.  Form expressions.  Substitution.  Formulae.  Form equations.  Solve 1-step equations.  Solve 2-step equations.  Find pairs of values.</p>	<p style="text-align: center;"><b>Ratio (2 weeks)</b></p> <p>Add or multiply?  Using ratio language.  Introduction to the ratio symbol.  Ratio and fractions.  Scale drawing.  Use scale factors.  Similar shapes.  Ratio problems.  Proportion problems.  Recipes.</p>
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<b>Summer</b>	<b>Statistics (2 weeks)</b> Line graphs. Dual bar charts. Read and interpret pie charts. Pie charts with percentages. Draw pie charts. The mean.	<b>Consolidation</b>	<b>Projects - MEI Calculator Crunch</b> - <b>Investigations</b>
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