

Mathematics

Year 10F Curriculum Map

Unit One	Unit Two	Unit Three
<p>Topic: Place Value</p> <p>Key Learning: Understanding the place value for whole numbers, decimals and powers of ten, writing numbers in standard form and rounding to decimal places.</p> <p>Assessment: Topic-test and mid-year exam</p>	<p>Topic: Addition and Subtraction</p> <p>Key Learning: Formal and mental methods for addition and subtraction, applied to real world concepts such as shapes, ranges and medians.</p> <p>Assessment: Topic-test and mid-year exam</p>	<p>Topic: Multiplication and Division</p> <p>Key Learning: Formal and mental methods for multiplication and division, applied to real world concepts such as area and mean.</p> <p>Assessment: Topic-test and mid-year exam</p>
Unit Four	Unit Five	Unit Six
<p>Topic: Prime Numbers</p> <p>Key Learning: Identifying and understanding prime numbers and the link to factors and multiples</p> <p>Assessment: Topic-test and mid-year exam</p>	<p>Topic: Directed number</p> <p>Key Learning: Understanding the world of positive and negative numbers and zero pairs, and their links to powers, roots and orders of operation</p> <p>Assessment: Topic-test and mid-year exam</p>	<p>Topic: Sequences</p> <p>Key Learning: Identifying and describing linear and non-linear sequences</p> <p>Assessment: Topic-test and mid-year exam</p>

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Unit Seven	Unit Eight	Unit Nine
<p>Topic: Algebraic Notation</p> <p>Key Learning: Understanding, using and applying algebraic notation to replace numbers</p> <p>Assessment: Topic-test and end-of-year exam</p>	<p>Topic: Delving into Data</p> <p>Key Learning: Working with frequency polygons and various types of graphs and charts, including scatter graphs</p> <p>Assessment: Topic-test and end-of-year exam</p>	<p>Topic: Fraction, Decimal, Percentage and Ratio Equivalence</p> <p>Key Learning: Converting fluently between fractions, decimals, percentages and ratios and exploring connections between them.</p> <p>Assessment: Topic-test and end-of-year exam</p>
Unit Ten	Unit Eleven	Unit Twelve
<p>Topic: Fractions, Ratio and Percentages of Amounts</p> <p>Key Learning: Finding fractions, ratio and percentages of given amounts using calculator and non-calculator methods of multiplicative reasoning.</p> <p>Assessment: Topic-test and end-of-year exam</p>	<p>Topic: Solving Equations and Inequalities</p> <p>Key Learning: Applying algebra skills to solve equations and inequalities.</p> <p>Assessment: Topic-test and end-of-year exam</p>	<p>Topic: Constructions and Measuring</p> <p>Key Learning: Drawing and measuring angles and applying angles rules to geometrical shapes.</p> <p>Assessment: Topic-test and end-of-year exam</p>

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Unit Thirteen	Unit Fourteen	Unit Fifteen
<p>Topic: Angles in Parallel Lines and Polygons</p> <p>Key Learning: Solving complex problems involving geometrical shapes and parallel lines with transversals.</p> <p>Assessment: Topic-test and end-of-year exam</p>	<p>Topic: Area and Perimeter of Trapezia, Circles and Compound Shapes</p> <p>Key Learning: Solving problems involving the area and perimeter of trapezia, circles and compound shapes.</p> <p>Assessment: Topic-test and end-of-year exam</p>	<p>Topic: Three Dimensional Shapes</p> <p>Key Learning: Surface area and volume of 3D shapes, including prisms.</p> <p>Assessment: Topic-test and end-of-year exam</p>
Unit Sixteen	Unit Seventeen	Unit Eighteen
<p>Topic: Using Graphs</p> <p>Key Learning: Constructing and interpreting real life straight line graphs and working with their equations</p> <p>Assessment: Topic-test and end-of-year exam.</p>	<p>Topic: Ratio</p> <p>Key Learning: Solving complex ratio problems using multiplicative reasoning</p> <p>Assessment: Topic-test and end-of-year exam.</p>	<p>Topic: Proportion</p> <p>Key Learning: Solving complex proportion problems using multiplicative reasoning</p> <p>Assessment: Topic-test and end-of-year exam.</p>

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