

**Mathematics Curriculum map Year 8 Secondary Ready**

<b>Term</b>	<b>Topic</b>	<b>Skills addressed</b>	<b>Literacy skills addressed</b>	<b>Key assessment tasks</b>
<b>Term 1</b>	<b>Numbers and the number system Counting and comparing Calculating</b>	<ul style="list-style-type: none"> <li>Solve problems involving prime numbers. Use highest common factors to solve problems. Use lowest common multiples to solve problems. Explore powers and roots. Investigate number patterns.</li> <li>Compare numbers. Order numbers.</li> <li>Apply understanding of place value. Explore written methods of calculation. Calculate with decimals. Know and apply the correct order of operations.</li> </ul>	Speaking and listening - LS2, SK4 Reading - RS5, RK1 Writing - WK2	<b>Progress Test 1</b>
<b>Term 2</b>	<b>Visualising and constructing Investigating properties of shapes Algebraic proficiency: tinkering</b>	<ul style="list-style-type: none"> <li>Interpret geometrical conventions and notation. Apply geometrical conventions and notation.</li> <li>Investigate the properties of 3D shapes. Explore quadrilaterals. Explore triangles.</li> <li>Understand the vocabulary and notation of algebra. Manipulate algebraic expressions. Explore functions. Evaluate algebraic statements.</li> </ul>	Speaking and listening - LS2, SK4 Reading - RS5, RK1 Writing - WK2	<b>Progress Test 2</b>
<b>Term 3</b>	<b>Exploring fractions, decimals and percentages Proportional reasoning Pattern sniffing Measuring space Investigating angles</b>	<ul style="list-style-type: none"> <li>Understand and use top-heavy fractions. Understand the meaning of 'percentage'. Explore links between fractions and percentages.</li> <li>Understand and use ratio notation. Solve problems that involve dividing in a ratio.</li> <li>Generate terms of a sequence from a term-to-term rule.</li> <li>Measure accurately. Convert between measures. Solve problems involving measurement.</li> <li>Apply the properties of angles at a point, angles at a point on a straight line, vertically opposite angles.</li> </ul>	Speaking and listening - LS2, SK4 Reading - RS5, RK1 Writing - WK2	<b>Progress Test 3</b>
<b>Term 4</b>	<b>Calculating fractions, decimals and percentages</b>	<ul style="list-style-type: none"> <li>Apply the four operations, including formal written methods, to simple fractions (proper and improper), and mixed numbers. Interpret percentages and percentage changes as a fraction or a decimal, and interpret these multiplicatively. Compare two quantities using percentages. Solve problems involving percentage change, including percentage increase/decrease.</li> </ul>	Speaking and listening - LS2, SK4 Reading - RS5, RK1 Writing - WK2	
<b>Term 5</b>	<b>Solving equations and inequalities Calculating space Checking, approximating and estimating Mathematical movement</b>	<ul style="list-style-type: none"> <li>Explore way of solving equations. Solve two-step equations. Solve three-step equations.</li> <li>Develop knowledge of area. Investigate surface area. Explore volume.</li> <li>Explore ways of approximating numbers. Explore ways of checking answers.</li> </ul>	Speaking and listening - LS2, SK4 Reading - RS5, RK1 Writing - WK2	<b>Yr8 Examination</b>
<b>Term 6</b>	<b>Mathematical movement Presentation of data Measuring data</b>	<ul style="list-style-type: none"> <li>Explore lines on the coordinate grid. Use transformations to move shapes. Describe transformations.</li> <li>Explore types of data. Construct and interpret graphs. Select appropriate graphs and charts. Investigate averages. Explore ways of summarising data. Analyse and compare sets of data.</li> </ul>	Reading - RS5, RK1 Writing - WK2, WK4 when comparing sets of data	<b>Progress Test 4</b>