



## SHFGS Assessment Criteria: Y7 Mathematics

Level Descriptor  Strands	<b>B: Below expected standard</b>	<b>W: Working towards expected standard</b>	<b>E: expected standard</b>	<b>A: Above expected standard</b>  <b>Students will be expected to apply their knowledge and skills from all areas to answer 2 or 3 step problems.</b>	<b>O: Outstanding- well above expected standard</b>  <b>Students will be expected to find an efficient route to solve a problem, and be able to show a clear and thorough method, algebraically where appropriate.</b>
<b>Number &amp; Algebra</b>	<ul style="list-style-type: none"> <li>Express simple functions in words.</li> <li>Secure place value knowledge in different problems.</li> <li>Confident use of four rules for integer numbers.</li> <li>Develop efficient written methods for number.</li> <li>Understand the relationship between Fractions, Decimals and Percentages.</li> </ul>	<ul style="list-style-type: none"> <li>Use letter symbols to represent unknown numbers or variables.</li> <li>Develop efficient methods with fractions and decimals.</li> <li>Confident use of four rules of number in the context of integers and fractions.</li> <li>Understand the relationship between number and algebra.</li> </ul>	<ul style="list-style-type: none"> <li>Construct and solve simple linear equations.</li> <li>Use simple graphs in context.</li> <li>Estimate and Round effectively.</li> <li>Secure efficient methods with fractions and decimals.</li> <li>Understand use different properties of number.</li> <li>Effectively use and understand the order of operation.</li> </ul>	<ul style="list-style-type: none"> <li>Expand simple bracketed expressions.</li> <li>Extend knowledge of sequences.</li> <li>Use <math>y=mx+c</math> effectively</li> <li>Use efficient methods with fractions and decimals</li> <li>Extend the use of appropriate properties of numbers.</li> </ul>	<ul style="list-style-type: none"> <li>Secure techniques of factorisation.</li> <li>Solving equations effectively.</li> <li>Secure knowledge of generalisation of linear sequences.</li> <li>Solve complex percentage problems</li> <li>Understand and use proportionality</li> <li>Use all of these skills effectively and extend in problem solving situations.</li> <li>.</li> </ul>
<b>Geometry &amp; Measures</b>	<ul style="list-style-type: none"> <li>Know and use simple area formulae.</li> <li>Use correct vocabulary, notation and labelling conventions for lines, angles and shapes.</li> </ul>	<ul style="list-style-type: none"> <li>Use mathematical geometrical equipment.</li> <li>Use facts of Lines and Angles to solve simple geometric problems.</li> </ul>	<ul style="list-style-type: none"> <li>Understand and use the language and notation associated with transformations.</li> <li>Identify and use angle and symmetry properties of simple shapes.</li> <li>Perform simple constructions.</li> </ul>	<ul style="list-style-type: none"> <li>Effectively use all mathematical geometrical equipment.</li> <li>Extending Skills in the full range of 2-dimensions.</li> <li>Perform constructions in context.</li> </ul>	<ul style="list-style-type: none"> <li>Solve multi-step problems using properties of angles using an efficient process.</li> <li>Explore and compare combinations of transformations.</li> </ul>

			<ul style="list-style-type: none"> <li>Derive and use formulae and effectively solve simple Area and Volume problems.</li> </ul>		<ul style="list-style-type: none"> <li>Work confidently in the full range of 2-dimensions.</li> <li>Consider general rules for multiple transformations.</li> <li>Solve problems involving area in context (eg. Finance, applied)</li> </ul>
<b>Statistics &amp; Probability</b>	<ul style="list-style-type: none"> <li>Construct Simple Graphs and Diagrams to represent Data.</li> <li>Simple Theoretical Probability of single events.</li> </ul>	<ul style="list-style-type: none"> <li>Calculate statistics for small sets of Discrete Data.</li> <li>Construct and Interpret Simple Graphs and diagrams.</li> <li>Comparisons of experimental and Theoretical probabilities in a simple context.</li> </ul>	<ul style="list-style-type: none"> <li>Calculate Statistics, including from frequency tables, for sets of discrete data.</li> <li>Construct and Interpret more complex graphical representations. Effectively compare two distributions.</li> <li>Effective use of the probability scale.</li> </ul>	<ul style="list-style-type: none"> <li>Calculate Statistics for sets of discrete and continuous data.</li> <li>Compare in more detail two distributions. Construct and Interpret more developed complex graphical representations.</li> <li>Develop probability to include mutually exclusive outcomes.</li> </ul>	<ul style="list-style-type: none"> <li>Calculate, Interpret and refine summary statistics and charts from a suitably collected data set.</li> <li>Compare experimental and theoretical probabilities in a range of contexts.</li> <li>Use an appropriate range of statistical methods to explore and summarise data.</li> <li>Make reasoned decisions about which statistical measure is most suitable in different contexts.</li> </ul>