



<b>Overview</b>	<p>The purpose of the Maths curriculum is to equip students with uniquely powerful ways to describe, analyse and solve problems and to make them more prepared for the real world.</p> <p>We do this by providing a secure understanding of mathematical concepts, from basic principles of mathematics to complex topics that combine several areas of study into a single question.</p> <p>In Year 7 we concentrate on retention of knowledge and depth of learning. In doing this, all our students have the opportunity to master key skills that might be required in their future development.</p>
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	Half Term 1	Half Term 2	Assessment
<b>Autumn Term</b>	<p><b>Numerical Skills</b></p> <ul style="list-style-type: none"> <li>Understand and use place value for decimals. Calculations with negative numbers. Estimate calculations by rounding.</li> </ul> <p><b>Order of operations</b></p> <ul style="list-style-type: none"> <li>Solve calculations requiring understanding of B-I-DM-AS (know that the inverse of squaring is 'square rooting').</li> </ul> <p><b>Basic rules of algebra</b></p> <ul style="list-style-type: none"> <li>Introduce the concept of algebra, simplify expressions, manipulate expressions through simple one step rearranging, substitute positive and negative integers into expressions, solve simple one step equations. Substitute and solve.</li> </ul>	<p><b>Factors and Multiples</b></p> <ul style="list-style-type: none"> <li>Use the concepts and vocabulary of prime numbers, factors (or divisors), multiples, common factors, common multiples, highest common factor, lowest common multiple.</li> </ul> <p><b>Expand and Factorise</b></p> <ul style="list-style-type: none"> <li>Simplify and manipulate algebraic expressions to maintain equivalence by multiplying a single term over a bracket or by taking out common factors.</li> </ul> <p><b>Addition and Subtraction</b></p> <ul style="list-style-type: none"> <li>Use Addition and Subtraction, including formal written methods, applied to integers or decimals.</li> </ul>	<p>Baseline Test. First week of Term</p> <p>The assessments in Year 7 mainly test the content covered in that half term but also test cumulative learning.</p> <p>Half Term 1. Immediately after Oct Half Term break.</p> <p>Half Term 2. Just before Christmas break.</p>

	Half Term 3	Half Term 4	Assessment
<b>Spring Term</b>	<p><b>Perimeter</b></p> <ul style="list-style-type: none"> <li>Calculate and solve problems involving perimeters of rectangles and compound shapes (not circles).</li> </ul> <p><b>Mean</b></p> <ul style="list-style-type: none"> <li>Describe, interpret and compare observed distributions of a single variable through the use of the mean.</li> </ul> <p><b>Multiplication and Division</b></p> <ul style="list-style-type: none"> <li>Use Multiplication and Division, including formal written methods, applied to integers, decimals.</li> </ul> <p><b>Area of rectangles and triangles and parallelograms</b></p> <ul style="list-style-type: none"> <li>Derive and apply formulae to calculate and solve problems involving area of triangles and rectangles.</li> </ul>	<p><b>Fraction Manipulation</b></p> <ul style="list-style-type: none"> <li>Express one quantity as a fraction of another, where the fraction is less than 1 and greater than 1.</li> </ul> <p><b>Adding and Subtracting Fractions</b></p> <ul style="list-style-type: none"> <li>Use addition and subtraction, including formal written methods, applied to proper and improper fractions, and mixed numbers.</li> </ul>	<p>The assessments in Year 7 mainly test the content covered in that half term but also test cumulative learning.</p> <p>Half Term 3. Last week of Half Term 3.</p> <p>Half Term 4 Last week of Half Term 4.</p>

	Half Term 5	Half Term 6	Assessment
Summer Term	<p><b>Comparing and Ordering Fractions</b></p> <ul style="list-style-type: none"> <li>Compare and order fractions by creating common denominators.</li> </ul> <p><b>Fractions of amounts</b></p> <ul style="list-style-type: none"> <li>Interpret fractions as operators.</li> </ul> <p><b>Polygons</b></p> <ul style="list-style-type: none"> <li>Derive, describe and illustrate properties of triangles, quadrilaterals and other plane figures [for example, equal lengths and angles] using appropriate language and technologies.</li> <li>Describe, sketch and draw regular polygons, and other polygons that are reflectively and rotationally symmetric.</li> </ul> <p><b>Angles</b></p> <ul style="list-style-type: none"> <li>Apply the properties of angles at a point, angles at a point on a straight line, vertically opposite angles.</li> </ul>	<p><b>Coordinates</b></p> <ul style="list-style-type: none"> <li>Read and plot coordinates in all 4 quadrants.</li> </ul> <p><b>Time</b></p> <ul style="list-style-type: none"> <li>Work with analogue and digit time to understand and interpret everyday situations.</li> </ul>	<p>The assessments in Year 7 mainly test the content covered in that half term but also test cumulative learning.</p> <p>Summer Exam these exams cover all the topics learnt in year 7 in equal measures.</p>

Useful Resources for Supporting Your Child at Home:	Homework:
<p><a href="https://whgs-academy.sparxmaths.uk/">https://whgs-academy.sparxmaths.uk/</a>  <a href="https://padlet.com/andrewharrison6/ks3-student-resources-lsap5lkebv2ktn28">https://padlet.com/andrewharrison6/ks3-student-resources-lsap5lkebv2ktn28</a></p>	<p>Sparx Homework is set automatically weekly, and students have 7 days to achieve 100%</p>