

Learn During This Term

## Maths Curriculum Map



Year Summer 8 Perimeter, area and Volume **Geometric Properties: Polygons + Testing** Construction Finding the perimeter of any given shape Conjectures Understand bearings the ability to • • Calculate the area of 2D shapes, such as squares, rectangles, triangles, Understanding the concept linking to measure and represent them • • parallelograms and trapezia adjacent angles on straight line and Construct a bisector to an angle and a Finding the area and circumference of a circle around a point line • Solving problems involving compound shapes Deriving information about angles in any Construct different triangles using a ٠ triangle and quadrilateral Understanding 3D shapes compass . Finding the surface area of different 3D shapes Find the sum of angles in any polygon • Understand loci and how it can be Using the formula to derive the volume of 3D shpes Understand the proof and be able to used to solve given problems calculate interior angles in any regular polygon Understand the proof and be able to ٠ calculate the exterior angles of any regular polygon Understanding the link between angles between parallel lines that have been intersected Using learnt knowledge to solve ٠ What Will problems, create proofs and test conjectures **Your Child** 





	Homework	<u>MyMaths</u>	Schemes Of Work	Presentation in Mathematics
	Student are given weekly homework that encourages them to use the knowledge that they have been through in high school and primary school.	All students have access to their individual account on MyMaths: <u>www.mymaths.co.uk</u> Students are asked to keep their user name and password safe in their planner. They can access	All students have a scheme of work stuck in their maths books. This is a list of the topics that they will cover during the year. It is a simplified version of the steps they will cover so they can keep a track of what they have completed and what they are yet.	In homework and classwork as a department we follow a very strict presentation policy and all students should be aware of it and follow it at all times. Our presentation policy is that all homework and classwork should have the
Home learning/how parents can help?	This is important as this allows them to retrieve previous learning and helps solidify knowledge in students' long- term memory. Students should know what day their homework will be checked and must have it when they come to that lesson.	different lessons that we are completing in class to to learn. enhance their understanding of the learning and knowledge that they have gained.		questions, working out and answers. This is an important practice that will enable them to access the most marks in their exams as there is always marks allocated for working out.





Year	Summer		
8			
What Is The Prior Learning That Your Child Is Expected To Know	<ul> <li>Perimeter, area and Volume</li> <li>Find the area of rectilinear shapes by counting squares.</li> <li>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</li> <li>Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes.</li> <li>Estimate volume (for example, using 1 cm<sup>3</sup> blocks to build cuboids [including cubes]) and capacity (for example, using water).</li> <li>Recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>Recognise when it is possible to use formulae for area and volume of shapes</li> <li>Calculate the area of parallelograms and triangles</li> <li>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm<sup>3</sup>) and cubic metres (m<sup>3</sup>).</li> <li>Use the properties of a range of polygons to deduce their perimeters</li> <li>Derive and use the formula for the area of a trapezium</li> <li>Understand that the areas of composite shapes can be found in different ways.</li> </ul>	<ul> <li>Geometric Properties: Polygons + Testing Conjectures         <ul> <li>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</li> <li>Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.</li> <li>Compare and regular polygons.</li> </ul> </li> </ul>	
	<u>MyMaths</u>	Missed a Lesson	
Home learning/how parents can help?	All students will have fixed assigned tasks on MyMaths. They should use these assignments to check their prior knowledge. The class teacher will direct the students to which tasks they should complete to improve their prior knowledge. This is not part of the homework, this is extra work that students should complete to enhance their learning and increase their fluency in maths.	In Key Stage 3 we are using MyMaths lessons and tasks to help students catch up in the case that they have missed a lesson. This helped them to be ready to engage with their next maths lessons and increases their chance to success. The title of the lesson will be shared by the teacher and they need to find it on MyMaths and complete the lesson to enhance their learning within the classroom. Positive points will be awarded for this as it shows their resilience and high aspirations	





