

Islip Manor High School

Scheme of Learning Overview



This scheme of learning has been designed to ensure that you make progress, develop, and master key knowledge, skills, and ideas through academically rich content that reflects, values, and celebrates the diverse experiences, identities, and contributions of our school community.

Year group: 9 (Higher)	Term: Summer	Unit duration: 3 weeks	Unit title: Unit 5a - Polygons, Angles and Parallel Lines		
Unit assessment: End of Unit Assessment					
Fertile question: How can we be sure that angles in a triangle add up to 180 degrees?					
Key skills/concepts/knowledge that students should cover			Start RAG	End RAG	Literacy. Key vocabulary/subject terminology that students should cover:
<ul style="list-style-type: none">Classify quadrilaterals by their geometric properties and distinguish between scalene, isosceles and equilateral trianglesFind missing angles in a triangle using the angle sum in a triangle and the properties of an isosceles triangleUnderstand and use the angle properties of quadrilaterals and the fact that the angle sum of a quadrilateral is 360°Understand and use the angle properties of parallel lines and find missing angles using the properties of corresponding and alternate angles, giving reasonsUnderstand 'regular' and 'irregular' as applied to polygonsCalculate and use the sums of the interior angles of regular and irregular polygonsUse that the sum of the exterior angles of any polygon is 360°Use that the sum of the interior angle and the exterior angle is 180°Use the side/angle properties of compound shapes made up of triangles, lines and quadrilaterals to solve more complex problems including those using algebraUse angle facts to demonstrate how shapes would 'fit together', and work out interior angles of shapes in a pattern					<div>Geometric</div> <div>Quadrilateral</div> <div>Parallelogram</div> <div>Kite</div> <div>Equilateral</div> <div>Parallel</div> <div>Alternate</div> <div>Polygon</div> <div>regular</div> <div>Irregular</div> <div>Exterior Angle</div> <div>Interior Angle</div> <div>Properties</div> <div>Trapezium</div> <div>Rhombus</div> <div>Scalene</div> <div>Isosceles</div> <div>Corresponding</div>
Stretch. Key skills/concepts/knowledge that students should cover			Suggested materials teachers could/should use:		
Apply knowledge and skills to exam-style questions.			Mathsbox, corbettmaths, mathsgenie, DrAustinMaths Mini whiteboards		
			Key home learning tasks students should complete: SPARX Maths		