



# Longfield Learning Journey



<b>Key Stage 4 HIGHER</b>	<b>Unit of work: Angles and Polygons– Unit 3</b>	
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<b>Key Words:</b>	<b>Prerequisites</b>	<b>R</b>	<b>A</b>	<b>G</b>
Points, lines, vertices, planes, parallel lines, right angles, polygons, regular polygons and polygons, reflection ,rotation, symmetry.	Draw a coordinate grid and plot coordinates in all four quadrants.			
	Use angle facts at a point and on a line.			
	Use interior angle facts for triangles and quadrilaterals.			

	<b>Content: Angles and Polygons - Unit 3</b>	<b>R</b>	<b>A</b>	<b>G</b>
G1	Use conventional terms; points, lines, parallel lines, perpendicular lines, and right angles.			
G1	Draw diagrams from written description			
G3	Apply the properties of angles at a point, on a straight line and vertically opposite.			
G3	Understand and use alternate and corresponding angles on parallel lines.			
G15	Use bearings			
G3	Derive and use the sum of angles in a triangle.			
G4	Apply the properties and definitions of special quadrilaterals, including; square, rectangle, parallelogram, trapezium, kite and rhombus.			
G6	Apply angle facts and properties of triangles and quadrilaterals to conjecture and derive results.			
G11	Solve geometrical problems on coordinate axes			
G5	Use the basic congruence criteria for triangles (SSS, SAS, ASA, RHS)			
G6	Apply triangle congruence and similarity to conjecture and derive results.			
G19	Apply the concepts of congruence and similarity, including the relationships between lengths, areas, and volumes in similar figures.			
G1	Use conventional terms and notations: points, lines, vertices, planes, parallel lines, right angles, polygons, regular polygons and polygons with reflection and/or rotation symmetries.			
G3	Derive and use the angle sum in any polygon, derive properties of regular polygons			

<b>K</b> <i>What you know</i>	<b>W</b> <i>What you want to know</i>	<b>L</b> <i>What have you learned</i>