

<p>Topic 11: Constructing and classifying shapes. Measuring angles, coordinates</p>	<p>Key ideas</p>
<ul style="list-style-type: none"> □ Classify triangles and quadrilaterals according to their properties <i>Mathswatch G14 and Mathswatch G16</i> □ Use a ruler and protractor to construct triangles and quadrilaterals from given data. Extend to construction of hexagons, pentagons etc. Can also include other constructions such as right angles etc. □ Draw and measure acute and obtuse angles reliably to the nearest degree <i>Mathswatch G10a, G10b and G10c</i> □ Estimate the size of any given angle □ Solve problems involving coordinates in all four quadrants <i>Mathswatch A1b</i> 	<p>I can construct accurate drawings of triangles, using a pair of compasses, a protractor and a straight edge.</p> <p>I know the three-letter notation to describe any angle.</p> <p>I know the names and angle properties of quadrilaterals.</p> <p>I can Solve problems involving coordinates in all four quadrants.</p>

Key vocabulary

Classify	Decide a category that something belongs to.
Construct	Build, make or draw something accurately.
Measure	Find the size, amount of a quantity or the size of an angle.
Coordinate	Position on a graph written as (x, y). e.g. (2, 5) means 2 on the x-axis, 5 on the y-axis.
Quadrant	One of the four parts of a co-ordinate grid. e.g. the part showing just the positive x and y coordinates.
Compass	Mathematical Instrument that can used to draw circles or parts of circles.
Protractor	Mathematical Instrument used to measure angles.
Estimate	Calculate the approximate value of a calculation, or make a reasonable guess of the size of something.