



Longfield Learning Journey



Key Stage 4 Foundation	Unit of work: Circles and Constructions			
Key Words:	Prerequisites	R	A	G
Circle, circumference, perimeter, area, sector, segment, chord, radius, diameter	Accurately measure line segments and angles			
	Calculate the area of rectangles			

	Content: Circles and Constructions – Unit 11	R	A	G
G9	Identify and apply circle definitions and properties including centre, radius, diameter and circumference			
G17	Know the formula for the circumference and area of circles			
G17	Calculate area and circumference of circles			
G17	Calculate area and perimeter of composite shapes involving circles			
G9	Identify and apply circle definitions including arc sector and segment			
G18	Calculate arc length			
G18	Calculate sector area			
G18	Use formulae for arc length and sector area to work back and find angle of a sector.			
G2	Construct perpendicular bisector of a line segment			
G2	Construct a perpendicular to a given line from a given point			
G2	Bisect an angle			
G2	Use constructions to solve loci problems			
G2	Know that the perpendicular distance from a point to a line is the shortest distance to the line			

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