

Stage 9 – Geometry: Visualising and constructing

Know it!



Knowledge	
I know...	How to use ruler and compasses to construct the perpendicular bisector of a line segment
I know...	How to use ruler and compasses to bisect an angle
I know...	How to use a ruler and compasses to construct a perpendicular to a line from a point and at a point
I know...	How to construct the locus of points a fixed distance from a point and from a line
I know...	How to combine techniques to solve complex loci problems
I know...	How to construct a shape from its plans and elevations and vice versa

Link it!



Backward	Forward
Measure distances to the nearest millimetre. Use compasses to draw circles. Interpret plan and elevations.	

Prove it!



(Given a single point marked on the board) show me a point 30 cm away from this point. And another. And another ...

Demonstrate how to create the perpendicular bisector (or other constructions).

Say it!

Vocabulary	Definition
Compasses	An instrument for drawing circles and arcs and measuring distances between points
Construction	To draw a shape, line or angle accurately using a compass and straightedge (ruler). Sometimes you are also allowed to use a protractor and triangle.
Arc	Part of the circumference of a circle. E.g. using a compass but not drawing an entire circle.
Line segment	The part of a line that connects two points. It is the shortest distance between the two points.
Perpendicular bisector	A type of construction that draws a line exactly equal distance from two points.
Angle bisector	A type of construction that draws a line exactly equal distance between two lines.
Locus/Loci	The set of all points that share a property.
Equidistant	Equal distance