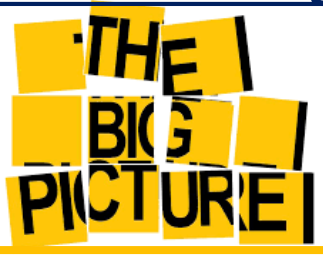
Stage 9 - Visualising and Constructing

WHAT DO WE ALREADY *know*?

- Measure distances to the nearest millimetre
- Create and interpret scale diagrams
- Use compasses to draw circles
- Interpret plans and elevations



- Know standard mathematical constructions
- Apply standard mathematical constructions
- Explore ways of representing 3D shapes

Compasses
Arc -late 14c., "part of a curved line," from Old French arc
Line segment
Perpendicular
Bisect -"to cut in two," 1640s, from Modern Latin bisectus
Bisector
Locus-1715, "locality," from Latin locus "a place, spot, position," from Old Latin stlocus, literally "where something is placed," Mathematical sense by 1750.
Loci say *low ki*
Plan and Elevation

Visualising and Constructing - Targets	Before Topic	After Topic	Teacher Mark
Use ruler and compasses to construct the perpendicular bisector of a line segment			
Use ruler and compasses to bisect an angle			
Use a ruler and compasses to construct a perpendicular to a line from a point and at a point			
Know how to construct the locus of points a fixed distance from a point and from a line			
Solve simple problems involving loci			
Combine techniques to solve more complex loci problems			
Choose techniques to construct 2D shapes; e.g. rhombus			
Construct a shape from its plans and elevations			
Construct the plan and elevations of a given shape			