

# YEAR 9 — CONSTRUCTING IN 2D/3D...

## Constructions & congruency

@whisto\_maths

### What do I need to be able to do?

By the end of this unit you should be able to:

- Draw and measure angles
- Construct scale drawings
- Find locus of distance from points, lines, two lines
- Construct perpendiculars from points, lines, angles
- Identify congruence
- Identify congruent triangles

### Keywords

**Protractor:** piece of equipment used to measure and draw angles

**Locus:** set of points with a common property

**Equidistant:** the same distance

**Discorectangle:** (a stadium) — a rectangle with semi circles at either end

**Perpendicular:** lines that meet at  $90^\circ$

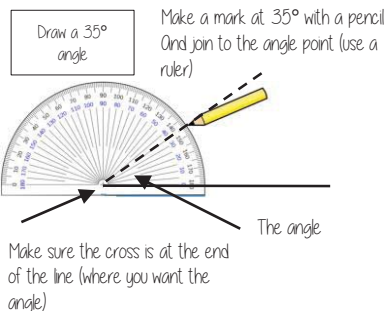
**Arc:** part of a curve

**Bisector:** a line that divides something into two equal parts

**Congruent:** the same shape and size

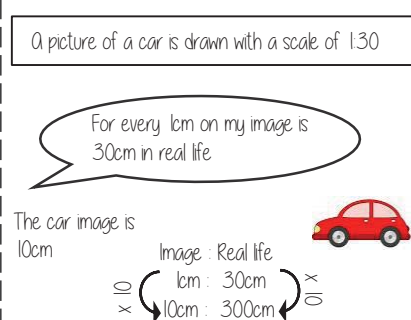
### Draw and measure angles

R

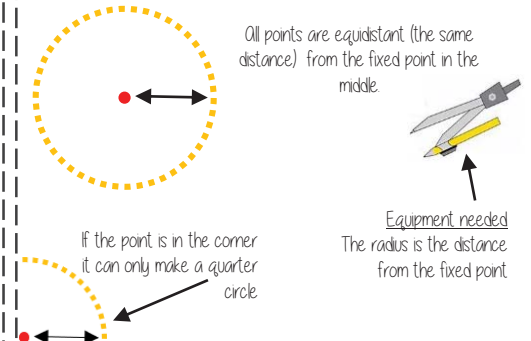


### Scale drawings

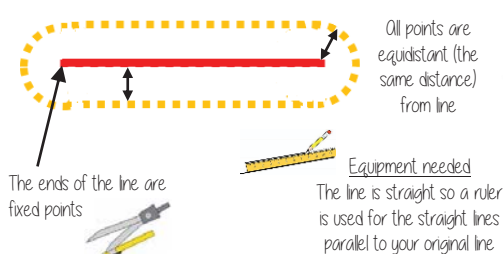
R



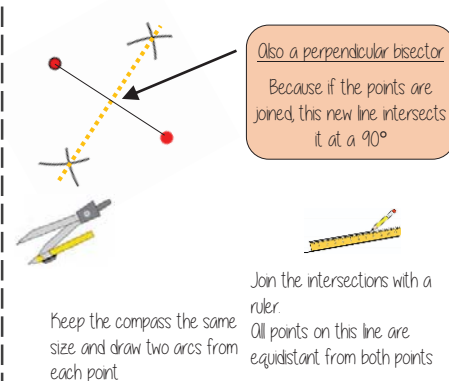
### Locus of a distance from a point



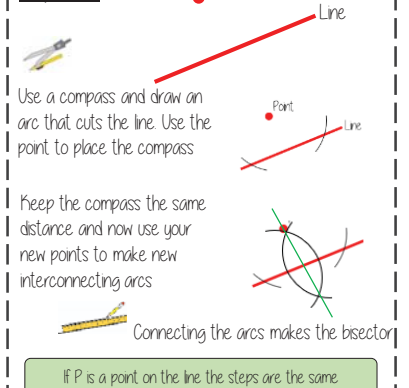
### Locus of a distance from a straight line



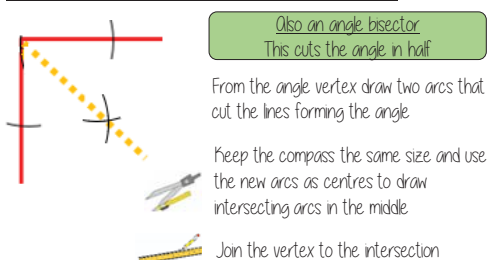
### Locus equidistant from two points



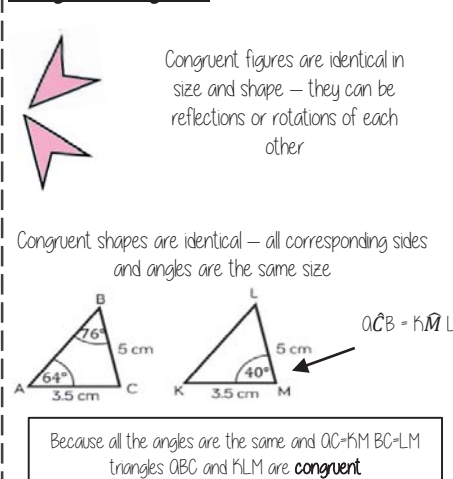
### Construct a perpendicular from a point



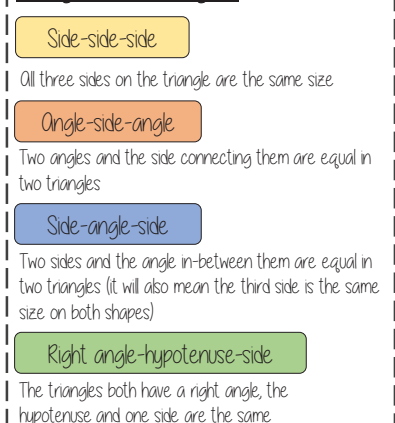
### Locus of a distance from two lines



### Congruent figures



### Congruent triangles



### Constructing Triangles

