*Mathsuatch clips in brackets

## What vill I learn about in this

 unit at CEC?Labelling lines and angles Drawing and measuring lines and angles (*MW G10a, G10b, G10c)
Using compasses and a protractor
Constructions and loci
(*MW G26a, G26b, G26c, G27)

## Where does this lead?

Polygons and angles (GM2)
Congruence and similarity (GM4)

Advanced drawing, measuring and constructing (GM7)

Key words and symbols: what I need to say and write accurately

| Word | Explanation |
| :--- | :--- |
| point | A point has no length or width (it exists in no dimensions, or OD) |
| line | A line has infinite length and no width (it exists in one dimension, or 1D). <br> We use arrows to show its infinity in both directions. |
| ray | A ray is a section of a line with a starting point that continues infinitely in one direction. <br> We use an arrow to show its infinity in one direction. |
| line segment | A line segment is a section of a line with a starting point and an end point. |
| construct | We construct when we only uses our compasses and straight edge (like a ruler). |
| bisector | 'Bisect' means 'cut in half'. A bisector is a line that cuts another in half. |
| perpendicular | Perpendicular lines meet at a right angle. |
| equidistant | Equidistant means an equal distance from two points or lines. |
| locus (pl. loci) | The path of all points that fit a condition. |

Angle types:

| Acute $0^{\circ}<\theta<90^{\circ}$ | $\begin{gathered} \text { Right } \\ 90^{\circ}=\theta \end{gathered}$ | Obtuse $90^{\circ}<\theta<180^{\circ}$ | Straight $180^{\circ}=\theta$ | $\begin{gathered} \text { Reflex } \\ 180^{\circ}<\theta<360^{\circ} \end{gathered}$ | Full turn $360^{\circ}=\theta$ |
| :---: | :---: | :---: | :---: | :---: | :---: |

Greek letters:
$\alpha$ (alpha)
$\beta$ (beta)
$\gamma$ (gamma)
$\theta$ (theta)

Fingertip facts: what I need to learn by heart
You will need to learn the constructions for:

1. a perpendicular bisector
2. an angle bisector
3. a perpendicular from a point on a line
4. a perpendicular from a point near a line
