## Y9 Maths Knowledge Organiser Topic 3: Constructions and Loci

| What must I be able to do? | Key vocabulary |  |
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| You may need to revise the following: <br> - Year 7 Topic 12: constructions and Classifying 2D Shapes <br> New content: <br> - construct a triangle knowing all 3 sides by using a compass | Bisector | The line which splits something in half. |
| - Construct an angle bisector <br> Sparx M232 <br> - Construct a perpendicular bisector <br> Sparx M23a | Loci (plural locus) | All the possible positions or points which fit a rule. |
| - Construct a $90^{\circ}$ angle from a point <br> - Draw a locus for a given rule <br> Sparx M253 | Equidistant | The same distance from something at all times. |



## Standard Loci

Equidistant from a point


Equidistant from a line


Equidistant from 2 points
Equidistant from 2 lines


The same as an angle bisector
The same as a perpendicular bisector

