

Y9 Maths Knowledge Organiser Topic 10: Constructions and Loci

<p>What must I be able to do?</p> <p>You may need to revise the following:</p> <ul style="list-style-type: none"> • Year 7 Topic 11: Constructions and Classifying 2D Shapes <p>New content:</p> <ul style="list-style-type: none"> • Construct a triangle knowing all 3 sides by using a compass <ul style="list-style-type: none"> ➢ Mathswatch 147 (GCSE) • Construct an angle bisector <ul style="list-style-type: none"> ➢ Mathswatch G26c (KS3) • Construct a perpendicular bisector <ul style="list-style-type: none"> ➢ Mathswatch 146a (GCSE) • Construct a 90° angle from a point <ul style="list-style-type: none"> ➢ Mathswatch 146b (GCSE) • Draw a locus for a given rule <ul style="list-style-type: none"> ➢ Mathswatch 165 (GCSE) 	<p>Key vocabulary</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Bisector</td> <td>The <u>line</u> which splits something in <u>half</u>.</td> </tr> <tr> <td>Loci (plural locus)</td> <td><u>All</u> the possible positions or <u>points</u> which fit a <u>rule</u>.</td> </tr> <tr> <td>Equidistant</td> <td>The <u>same distance</u> from something at all times.</td> </tr> </table>	Bisector	The <u>line</u> which splits something in <u>half</u> .	Loci (plural locus)	<u>All</u> the possible positions or <u>points</u> which fit a <u>rule</u> .	Equidistant	The <u>same distance</u> from something at all times.
Bisector	The <u>line</u> which splits something in <u>half</u> .						
Loci (plural locus)	<u>All</u> the possible positions or <u>points</u> which fit a <u>rule</u> .						
Equidistant	The <u>same distance</u> from something at all times.						

SSS Triangle

Draw the 1st side as a base

Angle bisector

Perpendicular bisector

90° angle from a point

Standard Loci

<p>Equidistant from a point</p>	<p>Equidistant from a line</p>	<p>Equidistant from 2 points</p> <p>The same as a perpendicular bisector</p>	<p>Equidistant from 2 lines</p> <p>The same as an angle bisector</p>
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