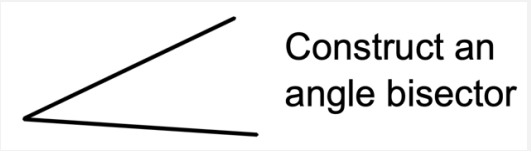
Year 9 Term 5

Learning Aim	Developing	Securing	Mastering
Constructing	Interpret scale drawings	Use ruler and compass for constructions of perpendicular lines that bisect or pass through a point, constructing angles and 2d shapes accurately	**Apply knowledge of construction to loci problems**
Examples	A map scale is 1:1000. Measure the line and work out the real distance in KM _____		Draw a loci of points 2cm from the line _____
Algebra	Solve equations that inc two or more steps, brackets and fractions. Solve inequalities and display on a number line	Solve equations & inequalities with variables both sides. Form and solve simple equations Rearrange formulae with one variable	**Solve quadratics by factorising** **Solve simultaneous equations** **Set up and solve equation that changes recurring decimal to fraction**
Examples	Solve and display your answer on a number line $3x - 5 < 22$	Solve $3(x + 2) = 5x - 3$ Make b the subject $P = \frac{3b+2a}{4}$	Solve the simultaneous equations $3x + 2y = 15$ $x + y = 5.5$

Extension opportunities
Rearrange with two variables that lead to factorising
Solve simultaneous equations graphically
Solve quadratics using the formula
Work out more complicated surd questions

You can find practice on all the topics taught this term at Mathsworkout.co.uk.
Login: sarum. Password: solid92

Go to Algebra; section 5, 14, 15 & 16. Geometry & measure; 14
Choosing the right level of difficulty for you within each topic area.