

# Year 9 Foundation Scheme of learning 2021-2022

## Term 3

*Stretch key learning in italics*

Topic	Key learning	MathsWatch clips	④	⑤	⑥
Equations	Write expressions and set up simple equations	137			
	Solve simple equations	135a & 135b			
	Substitute into a formula and solve the equation it produces	95, 135a & 135b			
	<i>Solve equations with letter on both sides</i>	135a & 135b			
	<i>Solve equations containing brackets</i>	135a & 135b			
	<i>Rearrange simple equations</i>	136			
	<i>Solve angle or perimeter problems using algebra</i>				
Inequalities	Show an inequality on a number line	138			
	<i>Use inequality notation to specify simple error intervals due to truncation or rounding</i>	155			
	Solve simple linear inequalities	139			
	<i>Solve an inequality such as <math>-3 &lt; 2x + 1 &lt; 7</math> and show the solution set on a number line</i>	139			
Shapes and parallel lines	Identify quadrilaterals and their properties as well as special triangles	10 & 122			
	Recall and use angles on a straight line, around a point and in a triangle	45 & 121			
	<i>Find missing angles using properties of corresponding, alternate and co-interior angles</i>	120			
May half term					
Assessment 3 on all topics studied this year so far					
Rates of change	Read values in km/h and mph from a speedometer				
	Calculate percentage profit or loss	109			
	Solve problems involving currency conversion and best buys	41, 105			
	<i>Calculate density, pressure and speed</i>	142			
Similarity and congruence	Use angle facts for missing angles	45, 120 & 121			
	Enlarge a shape by a given scale factor	148			
	<i>Use the basic congruence criteria for triangles (SSS, SAS, ASA, RHS)</i>	166			
	Solve problems to find missing lengths in similar shapes	144			
	<i>Understand the effect of enlargement on perimeter of shapes</i>				
Loci, Constructions and bearings	Estimate and measure lengths and angles	46a			
	Draw accurate lengths and angles	46b			
	Draw and measure bearings	124			
	Construct perpendicular bisectors and angle bisectors	145 – 146			
	<i>Use constructions to solve loci problems</i>	165			
Summer holidays					