

## YEAR 11 FOUNDATION - STUDENT CORE KNOWLEDGE

TERM	TOPIC	DETAIL	SPARX
<b>1</b>	Algebra Review	Manipulate algebra by collecting like terms, multiplying out single and double brackets, factorising into single and double brackets, find the difference of two squares. Simplify expressions using index laws. Solve linear equations up to and including those with the unknown on both sides of the equation. Find approximate solutions using linear and quadratic graphs. Changing the subjects of formulae, including finding r or d when given a sector area or arc length. Substitute values into formulae. Construct and solve linear simultaneous equations using elimination and substitution.	Search 'algebra' on Sparx Maths
	Right angled Trigonometry	Use trigonometry to find missing angles and lengths including within multi-step problems and in context. Understand how to find angles of elevation and depression. Know the exact trig values.	U605, U283, U545, U627
	Similar shapes	Use similarity to find scale factors and length. Understand the effect enlargement has on angle size and perimeter of similar shapes.	U551, U578
	Congruence	Identify congruent shapes and know the definition and link to transformations. Know the congruence criteria for triangles (SSS, SAS, ASA, RHS). Solve angle problems involving congruence.	U790, U866
	Constructions & Loci	Use constructions to draw angles, lines and triangles. Understand language of bisection. Use constructions to find the loci of points satisfying specific conditions.	U678, U447, U787, U245, U979, U820
<b>2</b>	<b>Revision</b>		
<b>3</b>	<b>Revision</b>		