

Year 11 Higher Current Progress

	16. Circle theorems	17. More Algebra	18. Vectors and Geometric Proof	19. Proportion and Graphs
Core knowledge:	16.1 Radii and chords 16.2 Tangents 16.3 Angles in circles 1 16.4 Angles in circles 2 16.5 Applying circle theorems	17.1 Rearranging formulae 17.2 Algebraic fractions 17.3 Simplifying algebraic fractions 17.4 More algebraic fractions 17.5 Surds 17.6 Solving algebraic fraction equations 17.7 Functions 17.8 Proof	18.1 Vectors and vector notation 18.2 Vector arithmetic 18.3 More vector arithmetic 18.4 Parallel vectors and collinear points 18.5 Solving geometric problems	19.1 Direct proportion 19.2 More direct proportion 19.3 Inverse proportion 19.4 Exponential functions 19.5 Non-linear graphs 19.6 Translating graphs of functions 19.7 Reflecting and stretching graphs of functions

Edexcel Unit	SparxMaths Strand/Sub strand	SparxMaths Topic	Topic code	R	A	G
16. Circle theorems	Geometry/Circles	Identifying parts of circles	U767			
	Geometry/Circle theorems	Angles subtended at the centre or circumference of a circle	U459			
	Geometry/Circle theorems	Angles in segments and cyclic quadrilaterals	U251			
	Geometry/Circle theorems	Circle theorems for chords and tangents	U489			
	Geometry/Circle theorems	Alternate segment theorem	U130			
	Geometry/Circle theorems	Mixed problems: Circle theorems	U808			
	Geometry/Circle theorems	Proving the circle theorems	U807			
	Algebra/Non-linear graphs	Equations of circles and tangents	U567			
17. More Algebra	Number/Surds	Rationalising denominators containing a single term	U707			
	Number/Surds	Rationalising denominators containing two terms	U281			
	Algebra/Algebraic fractions	Simplifying algebraic fractions by cancelling common factors	U103			
	Algebra/Algebraic fractions	Simplifying algebraic fractions by factorising into one bracket	U437			
	Algebra/Algebraic fractions	Simplifying algebraic fractions by factorising into two brackets	U294			
	Algebra/Algebraic fractions	Multiplying algebraic fractions	U457			
	Algebra/Algebraic fractions	Dividing algebraic fractions	U824			
	Algebra/Algebraic fractions	Adding and subtracting algebraic fractions	U685			
	Algebra/Solving equations	Solving equations with the unknown in the denominator	U505			
	Algebra/Rearranging formulae	Changing the subjects of formulae	U556			
	Algebra/Algebraic proofs	Writing algebraic proofs	U582			
	Algebra/Functions	Substituting into functions	U637			
	Algebra/Functions	Finding inverse functions	U996			
	Algebra/Functions	Substituting into composite functions	U895			
	Algebra/Functions	Finding composite functions	U448			

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18. Vectors and Geometric Proof	Geometry/Vectors	Understanding column vectors	U632			
	Geometry/Vectors	Identifying parallel vectors	U660			
	Geometry/Vectors	Adding and subtracting column vectors	U903			
	Geometry/Vectors	Multiplying column vectors by a scalar	U564			
	Geometry/Vectors	Solving geometric problems using vectors	U781			
	Geometry/Geometric proofs	Geometric proofs with vectors	U560			
19. Proportion and Graphs	Algebra/Non-linear graphs	Graphs of reciprocal functions	U593			
	Algebra/Non-linear graphs	Graphs of exponential functions	U229			
	Number/Percentage change	Growth and decay	U988			
	Algebra/Non-linear graphs	Transforming graphs	U455			
	Algebra/Non-linear graphs	Estimating areas under non-linear graphs	U882			
	Algebra/Non-linear graphs	Estimating gradients of non-linear graphs using tangents	U800			
	Ratio, Proportion and Rates of Change/Proportion	Graphs of direct and inverse proportion	U238			
	Ratio, Proportion and Rates of Change/Proportion	Constructing direct proportion equations	U407			
	Ratio, Proportion and Rates of Change/Proportion	Constructing inverse proportion equations	U138			