

Year 10 Higher Current Progress

	8. Transformations and constructions	9. Equations & inequalities	10. Probability	11. Multiplicative reasoning	12. Similarity & congruence	13. More trigonometry	14. Further statistics	15. Equations & graphs	16. Circle theorems
Core knowledge:	8.1 3D solids 8.2 Reflection and rotation 8.3 Enlargement 8.4 Translations and combinations of transformations 8.5 Bearings and scale drawings 8.6 Constructions 1 8.7 Constructions 2 8.8 Loci	9.1 Solving quadratic equations 1 9.2 Solving quadratic equations 2 9.3 Completing the square 9.4 Solving simple simultaneous equations 9.5 More simultaneous equations 9.6 Solving linear and quadratic simultaneous equations 9.7 Solving linear inequalities	10.1 Combined events 10.2 Mutually exclusive events 10.3 Experimental probability 10.4 Independent events and tree diagrams 10.5 Conditional probability 10.6 Venn diagrams and set notation	11.1 Growth and decay 11.2 Compound measures 11.3 More compound measures 11.4 Ratio and proportion	12.1 Congruence 12.2 Geometric proof and congruence 12.3 Similarity 12.4 More similarity 12.5 Similarity in 3D solids	13.1 Accuracy 13.2 Graph of the sine function 13.3 Graph of the cosine function 13.4 The tangent function 13.5 Calculating areas and sine rule 13.6 The cosine rule & 2D trigonometric problems 13.7 Solving problems in 3D 13.8 Transforming trigonometric graphs 1 13.9 Transforming trigonometric graphs 2	14.1 Sampling 14.2 Cumulative frequency 14.3 Box plots 14.4 Drawing histograms 14.5 Interpreting histograms 14.6 Comparing and describing populations	15.1 Solving simultaneous equations graphically 15.2 Representing inequalities graphically 15.3 Graphs of quadratic functions 15.4 Solving quadratic equations graphically 15.5 Graphs of cubic functions	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

Edexcel Unit	SparxMaths Strand/Sub strand	SparxMaths Topic	Topic code	R	A	G
8. Transformations and constructions	Geometry/Transformations	Rotation	U696			
	Geometry/Transformations	Reflection	U799			
	Geometry/Transformations	Translation	U196			
	Geometry/Transformations	Enlargement by a positive scale factor	U519			
	Geometry/Transformations	Enlargement by a positive or negative scale factor	U134			
	Geometry/Transformations	Combining transformations	U766			
	Geometry/Nets, plans and elevations	Plans and elevations	U743			
	Geometry/Scale diagrams	Drawing and interpreting scale diagrams	U257			
	Geometry/Bearings	Measuring and drawing bearings	U525			
	Geometry/Bearings	Calculating bearings	U107			
	Geometry/Constructions and loci	Constructing bisectors of angles	U787			
	Geometry/Constructions and loci	Constructing perpendicular bisectors and lines	U245			

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	Geometry/Constructions and loci	Mixed problems: Constructing bisectors & perpendicular lines	U979			
	Geometry/Constructions and loci	Constructing triangles	U187			
	Geometry/Constructions and loci	Constructing loci	U820			
9. Equations & inequalities	Algebra/Brackets	Factorising quadratic expressions of the form x^2+bx+c	U178			
	Algebra/Brackets	Factorising quadratic expressions of the form ax^2+bx+c	U858			
	Algebra/Brackets	Completing the square	U397			
	Algebra/Solving quadratic equations	Factorising to solve quadratic equations of the form $x^2+bx+c=0$	U228			
	Algebra/Solving quadratic equations	Factorising to solve quadratic equations of the form $ax^2+bx+c=0$	U960			
	Algebra/Solving quadratic equations	Solving quadratic equations by completing the square	U589			
	Algebra/Solving quadratic equations	Solving quadratic equations using the quadratic formula	U665			
	Algebra/Solving quadratic equations	Constructing and solving quadratic equations	U150			
	Algebra/Simultaneous equations	Solving simultaneous equations using elimination	U760			
	Algebra/Simultaneous equations	Solving simultaneous equations using substitution	U757			
	Algebra/Simultaneous equations	Solving simultaneous equations involving quadratics	U547			
	Algebra/Simultaneous equations	Constructing and solving simultaneous equations	U137			
	Algebra/Inequalities	Reading and drawing inequalities on number lines	U509			
	Algebra/Inequalities	Solving single inequalities	U759			
	Algebra/Inequalities	Solving inequalities with the unknown on both sides	U738			
	Algebra/Inequalities	Solving double inequalities	U145			
	Algebra/Inequalities	Constructing and solving inequalities	U337			
10. Probability	Probability/Theoretical probability	Writing probabilities as fractions, decimals & percentages	U510			
	Probability/Theoretical probability	Expected results from repeated experiments	U166			
	Probability/Theoretical probability	Sample space diagrams	U104			
	Probability/Theoretical probability	Probabilities of mutually exclusive events	U683			
	Probability/Theoretical probability	Venn diagrams	U476			
	Probability/Theoretical probability	Using set notation	U296			
	Probability/Theoretical probability	Venn diagrams with set notation	U748			
	Probability/Theoretical probability	Tree diagrams for independent events	U558			
	Probability/Theoretical probability	Tree diagrams for dependent events	U729			
	Probability/Conditional probability	Using the conditional probability formula	U821			
	Probability/Conditional probability	Conditional probabilities from tables	U246			
	Probability/Conditional probability	Conditional probabilities from tree diagrams	U806			

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	Probability/Conditional probability	Conditional probabilities from Venn diagrams	U699			
	Probability/Experimental probability	Calculating experimental probabilities	U580			
11. Multiplicative reasoning	Ratio, Proportion and Rates of Change/Proportion	Solving direct proportion word problems	U721			
	Ratio, Proportion and Rates of Change/Proportion	Solving inverse proportion word problems	U357			
	Number/Percentage change	Percentage change with a calculator	U671			
	Number/Percentage change	Growth and decay	U988			
	Number/Percentage change	Compound interest calculations	U332			
	Ratio, Proportion and Rates of Change/Compound measures	Calculating with speed	U151			
	Ratio, Proportion and Rates of Change/Compound measures	Calculating with rates	U256			
	Ratio, Proportion and Rates of Change/Compound measures	Calculating with density	U910			
	Ratio, Proportion and Rates of Change/Compound measures	Calculating with pressure	U527			
	Ratio, Proportion and Rates of Change/Compound measures	Mixed problems: Calculating density and pressure	U842			
	Ratio, Proportion and Rates of Change/Proportion	Constructing direct proportion equations	U407			
	Ratio, Proportion and Rates of Change/Proportion	Constructing inverse proportion equations	U138			
	Ratio, Proportion and Rates of Change/Proportion	Graphs of direct and inverse proportion	U238			
12. Similarity & congruence	Geometry/Similarity and congruence	Understanding congruence	U790			
	Geometry/Similarity and congruence	Understanding similarity	U551			
	Geometry/Similarity and congruence	Mixed problems: Understanding similarity & congruence	U112			
	Geometry/Similarity and congruence	Congruent triangles	U866			
	Geometry/Similarity and congruence	Finding unknown sides in similar shapes	U578			
	Geometry/Similarity and congruence	Finding the perimeter and area of similar shapes	U630			
	Geometry/Similarity and congruence	Finding the surface area and volume of similar shapes	U110			
	Geometry/Geometric proofs	Geometric proofs with congruence and similarity	U887			
	Geometry/Surface area	Finding the surface area of frustums	U334			
	Geometry/Volume	Finding the volume of frustums	U350			

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13. More trigonometry	Geometry/Trigonometry	Graphs of trigonometric functions	U450			
	Geometry/Trigonometry	Using the exact values of trigonometric ratios	U627			
	Algebra/Non-linear graphs	Transforming graphs	U455			
	Geometry/Trigonometry	The area rule	U592			
	Geometry/Trigonometry	The sine rule	U952			
	Geometry/Trigonometry	The cosine rule	U591			
	Geometry/Trigonometry	Calculating with trigonometry and bearings	U164			
	Geometry/Pythagoras' theorem	Using Pythagoras' theorem in 3D	U541			
	Geometry/Trigonometry	Trigonometry in 3D shapes	U170			
14. Further statistics	Statistics/Collecting and presenting data	Collecting and recording data using tables	U120			
	Statistics/Collecting and presenting data	Types of data	U322			
	Statistics/Collecting and presenting data	Sampling and bias	U162			
	Statistics/Collecting and presenting data	Designing and using questionnaires	U911			
	Statistics/Cumulative frequency graphs	Drawing cumulative frequency graphs	U182			
	Statistics/Cumulative frequency graphs	Interpreting cumulative frequency graphs	U642			
	Statistics/Box plots	Drawing box plots	U879			
	Statistics/Box plots	Interpreting box plots	U837			
	Statistics/Box plots	Comparing populations using box plots and cumulative frequency graphs	U507			
	Statistics/Histograms	Drawing histograms with unequal class widths	U814			
	Statistics/Histograms	Interpreting histograms	U983			
	Statistics/Histograms	Calculating averages from histograms	U267			
15. Equations & graphs	Algebra/Non-linear graphs	Interpreting graphs of quadratic functions	U667			
	Algebra/Non-linear graphs	Finding the turning point of a quadratic graph by completing the square	U769			
	Algebra/Solving quadratic equations	Solving quadratic equations graphically	U601			
	Algebra/Brackets	Expanding triple brackets	U606			
	Algebra/Non-linear graphs	Graphs of cubic functions	U980			
	Algebra/Simultaneous equations	Solving simultaneous equations graphically	U836			
	Algebra/Inequalities	Solving quadratic inequalities	U133			
	Algebra/Inequalities	Graphs of linear inequalities	U747			
	Algebra/Iteration	Substituting into iterative formulae	U434			
	Algebra/Iteration	Finding approximate solutions to equations using iteration	U168			

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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			