

Year 10 Foundation Current Progress

	9. Graphs	10. Transformations	11. Ratio & proportion	12. Right-angled triangles	13. Probability	14. Multiplicative reasoning	15. Construction, loci & bearings	16. Quadratic equations & graphs	17. Perimeter, Area and Volume 2
Core knowledge:	9.1 Coordinates 9.2 Linear graphs 9.3 Gradient 9.4 $y = mx + c$ 9.5 Real-life graphs 9.6 Distance–time graphs 9.7 More real-life graphs	10.1 Translation 10.2 Reflection 10.3 Rotation 10.4 Enlargement 10.5 Describing enlargements 10.6 Combining transformations	11.1 Writing ratios 11.2 Using ratios 1 11.3 Ratios and measures 11.4 Using ratios 2 11.5 Comparing using ratios 11.6 Using proportion 11.7 Proportion and graphs 11.8 Proportion problems	12.1 Pythagoras' 1 12.2 Pythagoras' 2 12.3 Trigonometry: sine ratio 1 12.4 Trigonometry: sine ratio 2 12.5 Trigonometry: cosine ratio 12.6 Trigonometry: tangent ratio 12.7 Finding lengths and angles using trigonometry	13.1 Calculating probability 13.2 Two events 13.3 Experimental probability 13.4 Venn diagrams 13.5 Tree diagrams 13.6 More tree diagrams	14.1 Percentages 14.2 Growth and decay 14.3 Compound measures 14.4 Distance, speed and time 14.5 Direct and inverse proportion	15.1 3D solids 15.2 Plans and elevations 15.3 Accurate drawings 1 15.4 Scale drawings and maps 15.5 Accurate drawings 2 15.6 Constructions 15.7 Loci and regions 15.8 Bearings	16.1 Expanding double brackets 16.2 Plotting quadratic graphs 16.3 Using quadratic graphs 16.4 Factorising quadratic expressions 16.5 Solving quadratic equations algebraically	17.1 Circumference of a circle 1 17.2 Circumference of a circle 2 17.3 Area of a circle 17.4 Semicircles and sectors 17.5 Composite 2D shapes and cylinders 17.6 Pyramids and cones 17.7 Spheres and composite solids

Edexcel Unit	SparxMaths Strand/Sub strand	SparxMaths Topic	Topic code	R	A	G
9. Graphs	Algebra/Graphs and coordinates	Reading and plotting coordinates	U789			
	Algebra/Graphs and coordinates	Calculating midpoints	U933			
	Algebra/Functions	Substituting into functions	U637			
	Algebra/Graphs and coordinates	Solving shape problems involving coordinates	U889			
	Algebra/Real-life graphs	Plotting linear real-life graphs	U652			
	Algebra/Motion-time graphs	Plotting distance-time graphs	U403			
	Algebra/Motion-time graphs	Interpreting distance-time graphs	U914			
	Algebra/Motion-time graphs	Plotting velocity-time graphs	U937			
	Algebra/Motion-time graphs	Calculating speed from distance-time graphs	U462			
	Algebra/Motion-time graphs	Plotting distance-time graphs using speeds	U966			
	Algebra/Graphs and coordinates	Plotting straight line graphs	U741			
	Algebra/Graphs and coordinates	Finding equations of straight line graphs	U315			
	Algebra/Real-life graphs	Finding equations of linear real-life graphs	U862			
	Algebra/Graphs and coordinates	Interpreting equations of straight line graphs	U669			

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	Algebra/Graphs and coordinates	Find the equation of a straight line from its gradient & a point	U477			
10. Transformations	Geometry/Transformations	Rotation	U696			
	Geometry/Transformations	Translation	U196			
	Geometry/Transformations	Reflection	U799			
	Geometry/Transformations	Enlargement by a positive scale factor	U519			
	Geometry/Transformations	Combining transformations	U766			
	Geometry/Similarity and congruence	Understanding congruence	U790			
	Geometry/Similarity and congruence	Understanding similarity	U551			
	Geometry/Similarity and congruence	Mixed problems: Understanding similarity and congruence	U112			
11. Ratio & proportion	Ratio, Proportion & Rates of Change/ Ratio	Writing and simplifying ratios	U687			
	Ratio, Proportion & Rates of Change/ Ratio	Sharing amounts in a given ratio	U577			
	Ratio, Proportion & Rates of Change/ Ratio	Using equivalent ratios to find unknown amounts	U753			
	Ratio, Proportion & Rates of Change/ Ratio	Converting between ratios, fractions and percentages	U176			
	Ratio, Proportion & Rates of Change/ Proportion	Solving direct proportion word problems	U721			
	Ratio, Proportion & Rates of Change/ Proportion	Currency conversion	U610			
	Ratio, Proportion & Rates of Change/ Proportion	Solving inverse proportion word problems	U357			
	Ratio, Proportion & Rates of Change/ Proportion	Interpreting direct proportion equations	U640			
12. Right-angled triangles	Geometry/Pythagoras' theorem	Using Pythagoras' theorem in 2D	U385			
	Geometry/Trigonometry	Understanding sin, cos and tan	U605			
	Geometry/Trigonometry	Finding unknown sides in right-angled triangles	U283			
	Geometry/Trigonometry	Finding unknown angles in right-angled triangles	U545			
	Geometry/Trigonometry	Angles of elevation and depression	U967			
	Geometry/Trigonometry	Using the exact values of trigonometric ratios	U627			
13. Probability	Probability/Theoretical probability	Using probability phrases	U803			
	Probability/Theoretical probability	Writing probabilities as fractions	U408			
	Probability/Theoretical probability	Writing probabilities as fractions, decimals and percentages	U510			

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	Probability/Theoretical probability	Sample space diagrams	U104			
	Probability/Theoretical probability	Frequency trees	U280			
	Probability/Theoretical probability	Probabilities of mutually exclusive events	U683			
	Probability/Experimental probability	Calculating experimental probabilities	U580			
	Probability/Theoretical probability	Expected results from repeated experiments	U166			
	Probability/Theoretical probability	Venn diagrams	U476			
	Probability/Theoretical probability	Venn diagrams with set notation	U748			
	Probability/Theoretical probability	Using set notation	U296			
	Probability/Theoretical probability	Tree diagrams for independent events	U558			
	Probability/Theoretical probability	Tree diagrams for dependent events	U729			
14. Multiplicative reasoning	Ratio, Proportion & Rates of Change/Compound measures	Calculating with density	U910			
	Ratio, Proportion & Rates of Change/Compound measures	Calculating with pressure	U527			
	Ratio, Proportion & Rates of Change/Compound measures	Mixed problems: Calculating density and pressure	U842			
	Ratio, Proportion & Rates of Change/Compound measures	Calculating with speed	U151			
	Ratio, Proportion & Rates of Change/Compound measures	Calculating with rates	U256			
	Number/Fractions, decimals and percentages	Writing numbers as percentages of other numbers	U925			
	Number/Percentage change	Percentage change with a calculator	U671			
	Number/Percentage change	Finding original values in percentage calculations	U286			
	Number/Percentage change	Compound interest calculations	U332			
	Number/Percentage change	Growth and decay	U988			
	Ratio, Proportion & Rates of Change/Proportion	Solving direct proportion word problems	U721			
	Ratio, Proportion & Rates of Change/Proportion	Solving inverse proportion word problems	U357			
	Ratio, Proportion & Rates of Change/Proportion	Interpreting direct proportion equations	U640			
	Ratio, Proportion & Rates of Change/Proportion	Interpreting inverse proportion equations	U364			

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15. Constructions, loci & bearings	Geometry/Constructions and loci	Using a pair of compasses	U678			
	Geometry/Angles	Understanding, measuring and drawing angles	U447			
	Geometry/Line and shape properties	Properties of 3D shapes	U719			
	Geometry/Nets, plans and elevations	Plans and elevations	U743			
	Geometry/Similarity and congruence	Understanding congruence	U790			
	Geometry/Constructions and loci	Constructing triangles	U187			
	Geometry/Constructions and loci	Constructing bisectors of angles	U787			
	Geometry/Constructions and loci	Constructing perpendicular bisectors and lines	U245			
	Geometry/Constructions and loci	Mixed problems: Constructing bisectors & perpendicular lines	U979			
	Geometry/Constructions and loci	Constructing loci	U820			
	Geometry/Scale diagrams	Drawing and interpreting scale diagrams	U257			
	Geometry/Bearings	Measuring and drawing bearings	U525			
	Geometry/Bearings	Calculating bearings	U107			
16. Quadratic equations & graphs	Algebra/Brackets	Expanding double brackets	U768			
	Algebra/Brackets	Factorising quadratic expressions of the form x^2+bx+c	U178			
	Algebra/Brackets	Factorising the difference of two squares	U963			
	Algebra/Solving quadratic equations	Factorising to solve quadratic equations of the form $x^2+bx+c=0$	U228			
	Algebra/Solving quadratic equations	Solving quadratic equations graphically	U601			
	Algebra/Non-linear graphs	Plotting graphs of quadratic functions	U989			
	Algebra/Non-linear graphs	Interpreting graphs of quadratic functions	U667			
17. Perimeter, Area and Volume 2	Geometry/Circles	Identifying parts of circles	U767			
	Geometry/Circles	Finding the circumference of circles	U604			
	Geometry/Circles	Finding the area of circles	U950			
	Geometry/Circles	Finding the arc length of sectors	U221			
	Geometry/Circles	Finding the area of sectors	U373			
	Geometry/Surface area	Finding the surface area of cylinders	U464			
	Geometry/Volume	Finding the volume of cylinders	U915			
	Geometry/Surface area	Finding the surface area of cones	U523			
	Geometry/Surface area	Finding the surface area of spheres	U893			
	Geometry/Surface area	Mixed problems: Finding the surface area of cones and spheres	U771			
	Geometry/Volume	Finding the volume of cones	U116			
	Geometry/Volume	Finding the volume of spheres	U617			
	Geometry/Volume	Mixed problems: Finding the volume of cones and spheres	U426			
	Geometry/Volume	Finding the volume of pyramids	U484			

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	Geometry/Surface area	Finding the surface area of composite shapes	U561			
	Geometry/Volume	Finding the volume of composite shapes	U543			