

Year 9 Higher Current Progress

	1. Number	2. Algebra	3. Interpreting and representing data	4. Fractions, ratio and percentage	5. Angles and trigonometry	6. Graphs	7. Area and volume	8. Transformations and constructions	9. Equations & inequalities
Core knowledge:	1.1 Number problems and reasoning 1.2 Place value and estimating 1.3 HCF & LCM 1.4 Calculating with powers (indices) 1.5 Zero, negative and fractional indices 1.6 Powers of 10 and standard form 1.7 Surds	2.1 Algebraic indices 2.2 Expanding and factorising 2.3 Equations 2.4 Formulae 2.5 Linear sequences 2.6 Non-linear sequences 2.7 More expanding and factorising	3.1 Statistical diagrams 1 3.2 Time series 3.3 Scatter graphs 3.4 Line of best fit 3.5 Averages and range 3.6 Statistical diagrams 2	4.1 Fractions 4.2 Ratios 4.3 Ratio and proportion 4.4 Percentages 4.5 Fractions, decimals and percentages	5.1 Angle properties of triangles and quadrilaterals 5.2 Interior angles of a polygon 5.3 Exterior angles of a polygon 5.4 Pythagoras' theorem 1 5.5 Pythagoras' theorem 2 5.6 Trigonometry 1 5.7 Trigonometry 2	6.1 Linear graphs 6.2 More linear graphs 6.3 Graphing rates of change 6.4 Real-life graphs 6.5 Line segments 6.6 Quadratic graphs 6.7 Cubic and reciprocal graphs 6.8 More graphs	7.1 Perimeter and area 7.2 Units and accuracy 7.3 Prisms 7.4 Circles 7.5 Sectors of circles 7.6 Cylinders and spheres 7.7 Pyramids and cones	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

Edexcel Unit	SparxMaths Strand/Sub strand	SparxMaths Topic	Topic code	R	A	G
1. Number	Number/Operations	Adding and subtracting decimals	U478			
	Number/Operations	Using a written method to multiply decimals	U293			
	Number/Operations	Using a written method to divide with decimals	U868			
	Probability/Counting outcomes	Using the product rule for counting	U369			
	Number/Rounding	Rounding integers	U480			
	Number/Rounding	Rounding decimals	U298			
	Number/Rounding	Truncating decimals	U108			
	Number/Rounding	Rounding integers using significant figures	U731			
	Number/Rounding	Rounding decimals using significant figures	U965			
	Number/Rounding	Estimating calculations	U225			
	Number/Roots and powers	Calculating with roots and powers	U851			
	Number/Roots and powers	Estimating roots and powers	U299			
	Number/Roots and powers	Indices of the form $1/a$	U985			
	Number/Roots and powers	Indices of the form a/b	U772			

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	Number/Index rules	Index rules with positive indices	U235			
	Number/Index rules	Index rules with negative indices	U694			
	Number/The order of operations	Using the correct order of operations	U976			
	Number/Number skills	Using a calculator	U926			
	Number/Factors, multiples and primes	Finding factors and using divisibility tests	U211			
	Number/Factors, multiples and primes	Finding prime numbers	U236			
	Number/Factors, multiples and primes	Prime factor decomposition	U739			
	Number/Factors, multiples and primes	Finding the lowest common multiple (LCM)	U751			
	Number/Factors, multiples and primes	Finding the highest common factor (HCF)	U529			
	Number/Factors, multiples and primes	Finding HCF and LCM using prime factor decomposition	U250			
	Number/Standard form	Using standard form with positive indices	U330			
	Number/Standard form	Using standard form with negative indices	U534			
	Number/Standard form	Multiplying and dividing numbers in standard form	U264			
	Number/Standard form	Adding and subtracting numbers in standard form	U290			
	Number/Standard form	Standard form with a calculator	U161			
	Number/Surds	Multiplying and dividing surds	U633			
	Number/Surds	Simplifying surds	U338			
	Number/Surds	Adding and subtracting surds	U872			
	Number/Surds	Expanding brackets with surds	U499			
2. Algebra	Algebra/Algebraic notation	Using algebraic notation	U613			
	Algebra/Simplifying expressions	Simplifying expressions by collecting like terms	U105			
	Algebra/Substituting into expressions and formulae	Substituting into expressions	U201			
	Algebra/Substituting into expressions and formulae	Substituting into algebraic formulae	U585			
	Algebra/Simplifying expressions	Simplifying expressions using index laws	U662			
	Algebra/Brackets	Expanding single brackets	U179			
	Algebra/Brackets	Factorising into one bracket	U365			
	Algebra/Brackets	Expanding double brackets	U768			
	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	Factorising the difference of two squares	U963			
	Algebra/Solving equations	Solving equations with two or more steps	U325			
	Algebra/Solving equations	Solving equations with the unknown on both sides	U870			
	Algebra/Solving equations	Constructing and solving equations	U599			

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	Algebra/Substituting into expressions and formulae	Substituting into real-life formulae	U144			
	Algebra/Rearranging formulae	Changing the subjects of formulae with one step	U675			
	Algebra/Rearranging formulae	Changing the subjects of formulae with two or more steps	U181			
	Algebra/Iteration	Substituting into iterative formulae	U434			
	Algebra/Iteration	Find approximate solutions to equations using iteration	U168			
	Algebra/Sequences	Special sequences	U680			
	Algebra/Sequences	Term-to-term rules	U213			
	Algebra/Sequences	Substituting into position-to-term rules	U530			
	Algebra/Sequences	Position-to-term rules for arithmetic sequences	U498			
	Algebra/Sequences	Position-to-term rules for sequences of patterns	U978			
	Algebra/Sequences	Position-to-term rules for quadratic sequences	U206			
	Algebra/Sequences	Position-to-term rules for geometric sequences	U958			
3. Interpreting and representing data	Statistics/Collecting and presenting data	Collecting and recording data using tables	U120			
	Statistics/Averages and range	Choosing suitable averages and solving problems	U717			
	Statistics/Stem-and-leaf diagrams	Drawing stem-and-leaf diagrams	U200			
	Statistics/Stem-and-leaf diagrams	Interpreting stem-and-leaf diagrams	U909			
	Statistics/Averages and range	Finding averages from frequency tables	U569			
	Statistics/Averages and range	Finding averages from grouped data	U877			
	Statistics/Bar charts	Drawing bar charts	U363			
	Statistics/Bar charts	Interpreting bar charts	U557			
	Statistics/Pie charts	Drawing pie charts	U508			
	Statistics/Pie charts	Interpreting pie charts	U172			
	Statistics/Frequency polygons	Drawing and interpreting frequency polygons	U840			
	Statistics/Line graphs	Drawing line graphs	U590			
	Statistics/Line graphs	Interpreting line graphs	U193			
	Statistics/Averages and range	Finding averages from diagrams	U854			
	Statistics/Collecting and presenting data	Comparing populations using diagrams	U520			
	Statistics/Scatter graphs	Plotting scatter graphs	U199			
	Statistics/Scatter graphs	Interpreting scatter graphs	U277			
	Statistics/Scatter graphs	Using lines of best fit	U128			
4. Fractions, ratio and percentage	Number/Fractions and mixed numbers	Constructing fractions	U163			
	Number/Fractions and mixed numbers	Finding equivalent fractions	U704			
	Number/Fractions and mixed numbers	Simplifying fractions	U646			

Edexcel Unit	SparxMaths Strand/Sub strand	SparxMaths Topic	Topic code	R	A	G
	Number/Fractions & percentages of amounts	Finding fractions of amounts without a calculator	U881			
	Number/Fractions and mixed numbers	Convert between mixed numbers and improper fractions	U692			
	Number/Fractions and mixed numbers	Adding and subtracting fractions	U736			
	Number/Fractions and mixed numbers	Adding and subtracting mixed numbers	U793			
	Number/Fractions and mixed numbers	Multiplying fractions	U475			
	Number/Fractions and mixed numbers	Multiplying with mixed numbers	U224			
	Number/Fractions and mixed numbers	Dividing fractions	U544			
	Number/Fractions and mixed numbers	Dividing with mixed numbers	U538			
	Number/Fractions, decimals and percentages	Converting fractions to recurring decimals	U550			
	Number/Fractions, decimals and percentages	Converting recurring decimals to fractions	U689			
	Number/Fractions, decimals and percentages	Converting between fractions, decimals and percentages	U888			
	Number/Fractions, decimals and percentages	Writing numbers as percentages of other numbers	U925			
	Number/Fractions & percentages of amounts	Finding percentages of amounts without a calculator	U554			
	Number/Percentage change	Percentage change without a calculator	U773			
	Number/Fractions & percentages of amounts	Finding percentages of amounts with a calculator	U349			
	Number/Percentage change	Percentage change with a calculator	U671			
	Number/Percentage change	Finding the percentage an amount has been changed by	U278			
	Number/Percentage change	Finding original values in percentage calculations	U286			
	Number/Percentage change	Simple interest calculations	U533			
	Ratio, Proportion and Rates of Change/Ratio	Writing and simplifying ratios	U687			
	Ratio, Proportion and Rates of Change/Ratio	Using equivalent ratios to find unknown amounts	U753			
	Ratio, Proportion and Rates of Change/Ratio	Converting between ratios, fractions and percentages	U176			
	Ratio, Proportion and Rates of Change/Ratio	Sharing amounts in a given ratio	U577			
	Ratio, Proportion and Rates of Change/Ratio	Combining ratios	U921			
	Ratio, Proportion and Rates of Change/Ratio	Calculating with ratios and algebra	U676			
	Ratio, Proportion and Rates of Change/Ratio	Changing ratios	U865			
	Ratio, Proportion and Rates of Change/Proportion	Solving direct proportion word problems	U721			
	Geometry/Scale diagrams	Drawing and interpreting scale diagrams	U257			
	Ratio, Proportion and Rates of Change/Proportion	Currency conversion	U610			
5. Angles and Trigonometry	Geometry/Line and shape properties	Line and shape properties	U121			
	Geometry/Angles	Angles in triangles	U628			
	Geometry/Angles	Angles in quadrilaterals	U732			
	Geometry/Angles	Combining angle facts	U655			

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	Geometry/Angles	Angles on parallel lines	U826			
	Geometry/Angles	Using quadrilateral properties to find angles	U329			
	Geometry/Angles	Angles in polygons	U427			
	Geometry/Geometric proofs	Geometric proofs with angle facts	U471			
	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			
6. Graphs	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	Calculating speed from distance-time graphs	U462			
	Algebra/Motion-time graphs	Plotting distance-time graphs using speeds	U966			
	Algebra/Motion-time graphs	Plotting velocity-time graphs	U937			
	Algebra/Motion-time graphs	Calculating acceleration from velocity-time graphs	U562			
	Algebra/Motion-time graphs	Calculating distances from velocity-time graphs	U611			
	Algebra/Graphs and coordinates	Calculating midpoints	U933			
	Algebra/Graphs and coordinates	Solving shape problems involving coordinates	U889			
	Algebra/Graphs and coordinates	Finding the equation of a straight line from two points on the line	U848			
	Algebra/Graphs and coordinates	Plotting straight line graphs	U741			
	Algebra/Graphs and coordinates	Interpreting equations of straight-line graphs	U669			
	Algebra/Graphs and coordinates	Finding equations of straight-line graphs	U315			
	Algebra/Graphs and coordinates	Find equation of a straight line from its gradient & a point	U477			
	Algebra/Real-life graphs	Finding equations of linear real-life graphs	U862			
	Ratio, Proportion and Rates of Change/Proportion	Graphs of direct and inverse proportion	U238			
	Algebra/Non-linear graphs	Plotting graphs of quadratic functions	U989			
	Algebra/Non-linear graphs	Interpreting graphs of quadratic functions	U667			
	Algebra/Non-linear graphs	Graphs of cubic functions	U980			
	Algebra/Non-linear graphs	Graphs of reciprocal functions	U593			
	Algebra/Non-linear graphs	Equations of circles and tangents	U567			

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7. Area and volume	Geometry/Area and perimeter	Mixed problems: Finding the area and perimeter of simple shapes	U993			
	Geometry/Area and perimeter	Problem solving: Area of triangles, parallelograms and trapeziums	U904			
	Geometry/Area and perimeter	Finding the area of compound shapes	U970			
	Geometry/Area and perimeter	Finding the perimeter of compound shapes	U351			
	Geometry/Area and perimeter	Problem solving: Area and perimeter of rectangles and compound shapes	U934			
	Geometry/Area and perimeter	Finding the area of compound shapes containing triangles	U575			
	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 cubes and cuboids	U929			
	Geometry/Surface area	Finding the surface area of prisms	U259			
	Geometry/Surface area	Finding the surface area of pyramids	U871			
	Geometry/Volume	Finding the volume of cubes and cuboids	U786			
	Geometry/Volume	Finding the volume of prisms	U174			
	Geometry/Volume	Finding the volume of cylinders	U915			
	Geometry/Surface area	Finding the surface area of cylinders	U464			
	Geometry/Volume	Finding the volume of pyramids	U484			
	Geometry/Volume	Mixed problems: Finding the volume of cones & spheres	U426			
	Geometry/Surface area	Mixed problems: Finding surface area of cones & spheres	U771			
	Geometry/Volume	Finding the volume of frustums	U350			
	Geometry/Surface area	Finding the surface area of frustums	U334			
	Geometry/Volume	Finding the volume of composite shapes	U543			
	Geometry/Surface area	Finding the surface area of composite shapes	U561			
	Number/Rounding	Finding error intervals	U657			
	Number/Rounding	Finding bounds for calculations	U587			
	Number/Rounding	Finding error intervals for truncated numbers	U301			
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			

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	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			
	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			