

Foundation Revision List

The skills which are stated in this booklet **will** be in your assessment.

We are telling you what they are because we **want** you to secure these skills!

How to use the revision list

1	RAG rate each of the topics on the revision list
2	Use Sparx Maths Independent Learning to improve any Ambers/Reds
3	When you have secured the skills on Sparx maths, you can update the revision lists as "Green" for this topic.

How to Interpret the Sparx Codes

1	If the code starts with the letter U , then it is from the GCSE curriculum
2	If the code starts with the letter M , then it is from the KS3 curriculum
3	If the code starts with Q , it is from the fundamentals curriculum
4	Adjust "your curriculum" to match the codes. Independent Learning Find topics My activity Search for topics: Enter topic name or code Your curriculum: Key Stage 3



Exceptional
Educational
Experience

Paper 1 Non-Calculator

Sparx Code	Topic Area	R	A	G
U105	Simplifying expressions by collecting like terms			
U888	Converting between fractions, decimals and percentages			
U388	Converting units of length, mass and capacity			
U751	Finding the lowest common multiple (LCM)			
U447	Understanding, measuring and drawing angles			
U981	Interpreting frequency tables and two-way tables			
U363	Drawing bar charts			
U557	Interpreting bar charts			
U121	Line and shape properties			
U719	Properties of 3D shapes			
U613	Using algebraic notation			
U755	Solving equations with one step			
U480	Rounding integers			
U225	Estimating calculations			
U736	Adding and subtracting fractions			
U881	Finding fractions of amounts without a calculator			
U902	Reading, converting and calculating with time			
M175	Function machines with numbers			
U257	Drawing and interpreting scale diagrams			
U293	Using a written method to multiply decimals			
U628, U826	Angles in triangles, Angles on parallel lines			
U721	Solving direct proportion word problems			
U200	Drawing stem-and-leaf diagrams			
U250	Finding the HCF and LCM using prime factor decomposition			
U683	Probabilities of mutually exclusive events			
U510	Writing probabilities as fractions, decimals and percentages			
U989	Plotting graphs of quadratic functions			
U667	Interpreting graphs of quadratic functions			
U881, U577, U687	Fractions of amounts, Sharing amounts in a ratio, Writing and simplifying ratios			
U687	Writing and simplifying ratios			
U290	Adding and subtracting numbers in standard form			
U427	Angles in polygons			
U315	Finding equations of straight line graphs			
U564	Multiplying column vectors by a scalar			

Paper 2 Calculator

Sparx Code	Topic Area	R	A	G
U902	Reading, converting and calculating with time			
U613	Using algebraic notation			
U888	Converting between fractions, decimals and percentages			
U947	Ordering negative numbers			
U497	Using appropriate units			
U599	Constructing and solving equations			
U144	Substituting into real-life formulae			
U260	Finding the mode			
U526	Calculating the range			
U390	Angles on a line and about a point			
U176	Converting between ratios, fractions and percentages			
U902	Reading, converting and calculating with time			
U151	Calculating with speed			
U981	Interpreting frequency tables and two-way tables			
U662	Simplifying expressions using index laws			
U325	Solving equations with two or more steps			
U508	Drawing pie charts			
U172	Interpreting pie charts			
U510	Writing probabilities as fractions, decimals and percentages			
U462	Calculating speed from distance-time graphs			
U403	Plotting distance-time graphs			
U349	Finding percentages of amounts			
U786, U929	Finding the volume and the surface area of cubes and cuboids			
U509	Reading and drawing inequalities on number lines			
U739	Prime factor decomposition			
U250	Finding the HCF and LCM using prime factor decomposition			
U577	Sharing amounts in a given ratio			
U950, U575	Area of circles, Area of compound shapes			
U721	Solving direct proportion word problems			
U820	Constructing loci			
U881, U916	Finding fractions of amounts			
	Calculating the mean			
U291, U753	Using equivalent ratios to find unknown amounts			
U545	Finding unknown angles in right-angled triangles			
U910, U388	Calculating with density, Converting units of length, mass and capacity			
U310	Sketching quadratic graphs			
U680	Special sequences			

Paper 3 Calculator

Sparx Code	Topic Area	R	A	G
U435	Understanding and ordering decimals			
U926	Using a calculator			
U888	Converting between fractions, decimals and percentages			
U704	Finding equivalent fractions			
U211	Finding factors and using divisibility tests			
U926	Using a calculator			
U408	Writing probabilities as fractions			
U104	Sample space diagrams			
U789	Reading and plotting coordinates			
U889	Solving shape problems involving coordinates			
U933	Calculating midpoints			
U851	Calculating with roots and powers			
U388	Converting units of length, mass and capacity			
U530	Substituting into position-to-term rules			
U498	Position-to-term rules for arithmetic sequences			
U730, U732	Vertically opposite angles, Angles in quadrilaterals			
U525	Measuring and drawing bearings			
U257	Drawing and interpreting scale diagrams			
U163	Constructing fractions			
U925	Writing numbers as percentages of other numbers			
U916	Finding fractions of amounts with a calculator			
U280	Frequency trees			
U349	Finding percentages of amounts with a calculator			
U569	Finding averages from frequency tables			
U926	Using a calculator			
U965	Rounding decimals using significant figures			
U662	Simplifying expressions using index laws			
U179	Expanding single brackets			
U768	Expanding double brackets			
U840	Drawing and interpreting frequency polygons			
U181	Changing the subjects of formulae with two or more steps			
U365	Factorising into one bracket			
U278	Finding the percentage an amount has been changed by			
U610, U721	Currency conversion, Solving direct proportion word problems			
U657	Finding error intervals			
U151	Calculating with speed			
U889	Solving shape problems involving coordinates			
U265, U385	Finding the area of trapeziums, Using Pythagoras' theorem in 2D			
U760	Solving simultaneous equations using elimination			

Higher Revision List

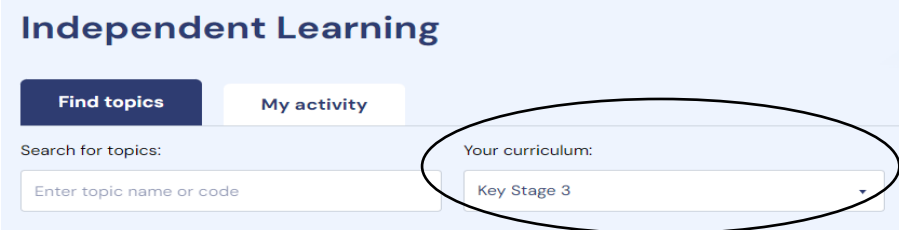
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Paper 1 Non-Calculator

Sparx Code	Topic Area	R	A	G
U250	Finding the HCF and LCM using prime factor decomposition			
U683	Probabilities of mutually exclusive events			
U510	Writing probabilities as fractions, decimals and percentages			
U989	Plotting graphs of quadratic functions			
U667	Interpreting graphs of quadratic functions			
U881, U577, U687	Fractions of amounts, Sharing amounts in a ratio, Writing and simplifying ratios			
U687	Writing and simplifying ratios			
U290	Adding and subtracting numbers in standard form			
U427	Angles in polygons			
U103	Simplifying algebraic fractions by cancelling common factors			
U738	Solving inequalities with the unknown on both sides			
U145	Solving double inequalities			
U887	Geometric proofs with congruence and similarity			
U578	Finding unknown sides in similar shapes			
U696	Rotation			
U134	Enlargement by a positive or negative scale factor			
U582	Writing algebraic proofs			
U407, U138	Constructing direct and inverse proportion equations			
U800	Estimating gradients of non-linear graphs using tangents			
U882	Estimating areas under non-linear graphs			
U689	Converting recurring decimals to fractions			
U104	Sample space diagrams			
U983	Interpreting histograms			
U707	Rationalising denominators containing a single term			
U281	Rationalising denominators containing two terms			
U448	Finding composite functions			

Paper 2 Calculator

Sparx Code	Topic Area	R	A	G
U739	Prime factor decomposition			
U250	Finding the HCF and LCM using prime factor decomposition			
U577	Sharing amounts in a given ratio			
U950, U575	Area of circles, Area of compound shapes			
U721	Solving direct proportion word problems			
U820	Constructing loci			
U881, U916	Finding fractions of amounts			
U291, U753	Calculating the mean, Using equivalent ratios to find unknown amounts			
U545	Finding unknown angles in right-angled triangles			
U910, U388	Calculating with density, Converting units of length, mass and capacity			
U662	Simplifying expressions using index laws			
U870	Solving equations with the unknown on both sides			
U558	Tree diagrams for independent events			
U879	Drawing box plots			
U837	Interpreting box plots			
U456	Calculating the median			
U606	Expanding triple brackets			
U369	Using the product rule for counting			
U747	Graphs of linear inequalities			
U110	Finding the surface area and volume of similar shapes			
U229	Graphs of exponential functions			
U434	Substituting into iterative formulae			
U170	Trigonometry in 3D shapes			
U477, U577	Equation of a line from its gradient and a point, Sharing amounts in a ratio			
U133	Solving quadratic inequalities			
U567, U598	Equations of circles and tangents, Translating graphs			
U591, U952	The cosine rule, The sine rule			

Paper 3 Calculator

Sparx Code	Topic Area	R	A	G
U840	Drawing and interpreting frequency polygons			
U181	Changing the subjects of formulae with two or more steps			
U365	Factorising into one bracket			
U278	Finding the percentage an amount has been changed by			
U610, U721	Currency conversion, Solving direct proportion word problems			
U657	Finding error intervals			
U151	Calculating with speed			
U889	Solving shape problems involving coordinates			
U265, U385	Finding the area of trapeziums, Using Pythagoras' theorem in 2D			
U330	Using standard form with positive indices			
U534	Using standard form with negative indices			
U926, U965	Using a calculator, Rounding decimals using significant figures			
U235	Index rules with positive indices			
U772	Indices of the form $\frac{a}{b}$			
U286	Finding original values in percentage calculations			
U980, U593, U229	Graphs of cubic, reciprocal, and exponential functions			
U592	The area rule			
U558	Tree diagrams for independent events			
U543	Finding the volume of composite shapes			
U685	Adding and subtracting algebraic fractions			
U476	Venn diagrams			
U699	Conditional probabilities from Venn diagrams			
U587	Finding bounds for calculations			
U459, U732	Angles subtended at the centre/circumference of circles, Angles in quadrilaterals			
U547	Solving simultaneous equations involving quadratic			
U567	Equations of circles and tangents			
U781	Solving geometric problems using vectors			