

Foundation Maths Revision List and Sparx Codes

Strand	Substrand	Topic	Sparx Independent Learning Code	😊	😐	😞
Number	Place value	Using number lines	U922			
Number	Place value	Understanding and ordering integers	U600			
Number	Place value	Understanding and ordering decimals	U435			
Number	Operations	Adding and subtracting integers	U417			
Number	Operations	Adding and subtracting decimals	U478			
Number	Operations	Multiplying and dividing with place value	U735			
Number	Operations	Formal multiply integers	U127			
Number	Operations	Formal multiply decimals	U293			
Number	Operations	Using a written method to divide integers	U453			
Number	Operations	Formal divide with decimals	U868			
Number	Negative numbers	Ordering negative numbers	U947			
Number	Negative numbers	Adding and subtracting negative numbers	U742			
Number	Negative numbers	Multiplying and dividing negative numbers	U548			
Number	Roots and powers	Calculating with roots and powers	U851			
Number	Operations	Using the correct order of operations	U976			
Number	Number skills	Using a calculator	U926			
Number	Index rules	Index rules with positive indices	U235			
Number	Index rules	Index rules with negative indices	U694			
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 standard form	U264			
Number	Standard form	Adding and subtracting standard form	U290			
Number	Standard form	Standard form with a calculator	U161			
Number	Rounding	Rounding integers	U480			
Number	Rounding	Rounding decimals	U298			
Number	Rounding	Rounding integers using significant figures	U731			
Number	Rounding	Rounding decimals using significant figures	U965			
Number	Rounding	Estimating calculations	U225			
Number	Rounding	Finding error intervals	U657			
Number	Rounding	Truncating decimals	U108			
Number	Rounding	Error intervals for truncated numbers	U301			
Number	Fractions	Finding fractions of shapes	U679			
Number	Fractions	Constructing fractions	U163			
Number	Fractions	Finding equivalent fractions	U704			
Number	Fractions	Simplifying fractions	U646			

Number	Fractions	Ordering fractions	U746		
Number	Fractions	Adding and subtracting fractions	U736		
Number	Fractions	Converting mixed numbers/improper fractions	U692		
Number	Fractions	Adding and subtracting mixed numbers	U793		
Number	Fractions	Ordering fractions and mixed numbers	U439		
Number	Fractions	Multiplying fractions	U475		
Number	Fractions	Multiplying with mixed numbers	U224		
Number	Fractions	Dividing fractions	U544		
Number	Fractions	Dividing with mixed numbers	U538		
Number	Fractions	Problem solving: Fractions and mixed numbers	U874		
Number	FDP	Converting between FDP	U888		
Number	FDP	Ordering fractions, decimals and percentages	U594		
Number	FDP	Writing numbers as % of other numbers	U925		
Number	FDP	Finding fractions of amounts non-calc	U881		
Number	FDP	Finding fractions of amounts with a calculator	U916		
Number	FDP	Finding percentages of amounts non-calc	U554		
Number	FDP	Finding percentages of amounts calc	U349		
Number	Percentage change	Percentage change without a calculator	U773		
Number	Percentage change	Percentage change with a calculator	U671		
Number	Percentage change	Finding original values	U286		
Number	Percentage change	Percentage an amount has been changed	U278		
Number	Percentage change	Simple interest calculations	U533		
Number	Percentage change	Compound interest calculations	U332		
Number	Percentage change	Growth and decay	U988		
Number	Types of number	Finding factors and using divisibility tests	U211		
Number	Types of number	Finding the lowest common multiple (LCM)	U751		
Number	Types of number	Finding the highest common factor (HCF)	U529		
Number	Types of number	Finding prime numbers	U236		
Number	Types of number	Prime factor decomposition	U739		
Number	Types of number	Finding the HCF and LCM using prime factors	U250		
Algebra	Algebraic notation	Using algebraic notation	U613		
Algebra	Substitution	Substituting into expressions	U201		
Algebra	Substitution	Substituting into algebraic formulae	U585		
Algebra	Substitution	Substituting into real-life formulae	U144		
Algebra	Simplifying	Simplifying expressions by collecting like terms	U105		
Algebra	Simplifying	Simplifying expressions using index laws	U662		
Algebra	Brackets	Expanding single brackets	U179		
Algebra	Brackets	Expanding double brackets	U768		
Algebra	Brackets	Factorising into one bracket	U365		
Algebra	Brackets	Factorising quadratic expressions	U178		
Algebra	Brackets	Factorising the difference of two squares	U963		
Algebra	Algebraic fractions	Simplifying algebraic fractions	U103		
Algebra	Formulae	Changing the subjects of formulae	U556		
Algebra	Solving equations	Solving equations with one step	U755		
Algebra	Solving equations	Solving equations with two or more steps	U325		
Algebra	Solving equations	Solving equations: unknown on both sides	U870		
Algebra	Solving equations	Solving equations: unknown in denominator	U505		
Algebra	Solving equations	Constructing and solving equations	U599		
Algebra	Inequalities	Inequalities on number lines	U509		
Algebra	Inequalities	Solving single inequalities	U759		
Algebra	Inequalities	Solving inequalities: unknown on both sides	U738		

Algebra	Inequalities	Solving double inequalities	U145		
Algebra	Inequalities	Constructing and solving inequalities	U337		
Algebra	Quadratic equations	Factorising to solve quadratic equations	U228		
Algebra	Quadratic equations	Solving quadratic equations graphically	U601		
Algebra	Simultaneous equations	Solving simultaneous equation	U760		
Algebra	Simultaneous equations	Simultaneous equations graphically	U836		
Algebra	Simultaneous equations	Constructing linear simultaneous equations	U137		
Algebra	Sequences	Term-to-term rules	U213		
Algebra	Sequences	Substituting into position-to-term rules	U530		
Algebra	Sequences	Position-to-term arithmetic sequences	U498		
Algebra	Sequences	Position-to-term rules for patterns	U978		
Algebra	Sequences	Special sequences	U680		
Algebra	Sequences	Position-to-term geometric sequences	U958		
Algebra	Functions	Substituting into functions	U637		
Algebra	Graphs and coordinates	Reading and plotting coordinates	U789		
Algebra	Graphs and coordinates	Calculating midpoints	U933		
Algebra	Graphs and coordinates	Solving shape problems involving coordinates	U889		
Algebra	Graphs and coordinates	Plotting straight line graphs	U741		
Algebra	Graphs and coordinates	Finding equations of straight line graphs	U315		
Algebra	Graphs and coordinates	Interpreting equations of straight line graphs	U669		
Algebra	Graphs and coordinates	Finding the equation of a straight line	U477		
Algebra	Graphs and coordinates	Finding the equation of a straight line 2	U848		
Algebra	Graphs and coordinates	Equations of parallel lines	U377		
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	Real-life graphs	Plotting linear real-life graphs	U652		
Algebra	Real-life graphs	Using and interpreting linear real-life graphs	U638		
Algebra	Real-life graphs	Finding equations of linear real-life graphs	U862		
Algebra	Real-life graphs	Sketch graphs of water flows	U896		
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		
Ratio	Time	Reading, converting and calculating with time	U902		
Ratio	Measures	Estimating and measuring	U102		
Ratio	Measures	Converting units of length, mass and capacity	U388		
Ratio	Measures	Converting units of area	U248		
Ratio	Measures	Converting units of volume	U468		
Ratio	Measures	Problem solving: length, area and volume	U663		
Ratio	Measures	Using appropriate units	U497		
Ratio	Compound measures	Calculating with speed	U151		
Ratio	Compound measures	Calculating with rates	U256		
Ratio	Compound measures	Calculating with density	U910		
Ratio	Compound measures	Calculating with pressure	U527		
Ratio	Compound measures	Mixed problems: density and pressure	U842		
Ratio	Ratio	Writing and simplifying ratios	U687		
Ratio	Ratio	Using ratios to find unknown amounts	U753		
Ratio	Ratio	Converting between ratios, fractions and %	U176		

Ratio	Ratio	Sharing amounts in a given ratio	U577			
Ratio	Ratio	Combining ratios	U921			
Ratio	Ratio	Calculating with ratios and algebra	U676			
Ratio	Ratio	Changing ratios	U865			
Ratio	Proportion	Solving direct proportion word problems	U721			
Ratio	Proportion	Solving inverse proportion word problems	U357			
Ratio	Proportion	Currency conversion	U610			
Ratio	Proportion	Interpreting direct proportion equations	U640			
Ratio	Proportion	Interpreting inverse proportion equations	U364			
Ratio	Proportion	Graphs of direct and inverse proportion	U238			
Geometry	Area and perimeter	Mixed problems: Area and perimeter	U993			
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	U226			
Geometry	Area and perimeter	Finding the area of triangles	U945			
Geometry	Area and perimeter	Area of compound shapes containing triangles	U575			
Geometry	Area and perimeter	Finding the area of parallelograms	U424			
Geometry	Area and perimeter	Finding the area of trapeziums	U265			
Geometry	Area and perimeter	Problem Solving 2	U343			
Geometry	Shape properties	Line and shape properties	U121			
Geometry	Shape properties	Symmetry	U849			
Geometry	Shape properties	Properties of 3D shapes	U719			
Geometry	Angles	Understanding, measuring and drawing angles	U447			
Geometry	Angles	Angles on a line and about a point	U390			
Geometry	Angles	Vertically opposite angles	U730			
Geometry	Angles	Angles in triangles	U628			
Geometry	Angles	Angles in quadrilaterals	U732			
Geometry	Angles	Combining angle facts	U655			
Geometry	Angles	Angles on parallel lines	U826			
Geometry	Angles	Using quadrilateral properties to find angles	U329			
Geometry	Angles	Angles in polygons	U427			
Geometry	Trigonometry	Understanding sin, cos and tan	U605			
Geometry	Trigonometry	Finding sides in right-angled triangles	U283			
Geometry	Trigonometry	Finding angles in right-angled triangles	U545			
Geometry	Trigonometry	Using the exact values of trigonometric ratios	U627			
Geometry	Trigonometry	Angles of elevation and depression	U967			
Geometry	Trigonometry	Calculating with trigonometry and bearings	U164			
Geometry	Similarity & congruence	Understanding congruence	U790			
Geometry	Similarity & congruence	Understanding similarity	U551			
Geometry	Similarity & congruence	Mixed problems: similarity and congruence	U112			
Geometry	Similarity & congruence	Congruent triangles	U866			
Geometry	Similarity & congruence	Finding unknown sides in similar shapes	U578			
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	Pythagoras' theorem	Using Pythagoras' theorem in 2D	U385			
Geometry	Plans and elevations	Nets of 3D shapes	U761			
Geometry	Plans and elevations	Plans and elevations	U743			
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	Surface area	Mixed Surface Area	U142		
Geometry	Surface area	Finding the surface area of cylinders	U464		
Geometry	Surface area	Finding the surface area of cones	U523		
Geometry	Surface area	Finding the surface area of spheres	U893		
Geometry	Surface area	Mixed Surface Area 2	U771		
Geometry	Surface area	Finding the surface area of frustums	U334		
Geometry	Surface area	Finding the surface area of composite shapes	U561		
Geometry	Volume	Finding the volume of cubes and cuboids	U786		
Geometry	Volume	Finding the volume of prisms	U174		
Geometry	Volume	Finding the volume of pyramids	U484		
Geometry	Volume	Finding the volume of cylinders	U915		
Geometry	Volume	Finding the volume of cones	U116		
Geometry	Volume	Finding the volume of spheres	U617		
Geometry	Volume	Mixed problems: volume of cones & spheres	U426		
Geometry	Volume	Finding the volume of frustums	U350		
Geometry	Volume	Finding the volume of composite shapes	U543		
Geometry	Vectors	Understanding column vectors	U632		
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	Vectors	Identifying parallel vectors	U660		
Geometry	Transformations	Translation	U196		
Geometry	Transformations	Reflection	U799		
Geometry	Transformations	Rotation	U696		
Geometry	Transformations	Enlargement by a positive scale factor	U519		
Geometry	Transformations	Combining transformations	U766		
Geometry	Constructions and loci	Using a pair of compasses	U678		
Geometry	Constructions and loci	Constructing triangles	U187		
Geometry	Constructions and loci	Constructing bisectors of angles	U787		
Geometry	Constructions and loci	Constructing perpendicular bisectors	U245		
Geometry	Constructions and loci	Mixed: bisectors and 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		
Geometry	Geometric proofs	Geometric proofs with angle facts	U471		
Geometry	Geometric proofs	Proofs with congruence and similarity	U887		
Probability	Theoretical probability	Using probability phrases	U803		
Probability	Theoretical probability	Writing probabilities as fractions	U408		
Probability	Theoretical probability	Writing probabilities mixed	U510		
Probability	Theoretical probability	Probabilities of mutually exclusive events	U683		
Probability	Theoretical probability	Expected results from repeated experiments	U166		
Probability	Theoretical probability	Sample space diagrams	U104		
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	Frequency trees	U280		
Probability	Theoretical probability	Tree diagrams for independent events	U558		
Probability	Theoretical probability	Tree diagrams for dependent events	U729		

Probability	Experimental probability	Calculating experimental probabilities	U580		
Statistics	Averages and range	Calculating the range	U526		
Statistics	Averages and range	Calculating the median	U456		
Statistics	Averages and range	Finding the mode	U260		
Statistics	Averages and range	Calculating the mean	U291		
Statistics	Averages and range	Finding averages from frequency tables	U569		
Statistics	Averages and range	Finding averages from diagrams	U854		
Statistics	Averages and range	Finding averages from grouped data	U877		
Statistics	Averages and range	Which average?	U717		
Statistics	Frequency tables	Interpreting tables	U981		
Statistics	Frequency tables	Interpreting tables with grouped data	U312		
Statistics	Charts	Drawing and interpreting tally charts	U653		
Statistics	Charts	Drawing and interpreting pictograms	U506		
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	Line graphs	Drawing line graphs	U590		
Statistics	Line graphs	Interpreting line graphs	U193		
Statistics	Scatter graphs	Plotting scatter graphs	U199		
Statistics	Scatter graphs	Interpreting scatter graphs	U277		
Statistics	Scatter graphs	Using lines of best fit	U128		
Statistics	Frequency polygons	Drawing and interpreting frequency polygons	U840		
Statistics	Data	Types of data	U322		
Statistics	Data	Designing and using questionnaires	U911		
Statistics	Data	Collecting and recording data using tables	U120		
Statistics	Data	Presenting data and making conclusions	U571		
Statistics	Data	Comparing populations using diagrams	U520		

Resources to support revision:

Sparx Maths is a website you are familiar with. Type the code of the topic into the independent search box and tasks are shown for you to complete. If you get stuck on a question, click 'watch video' & a video shows you how to complete the question.

www.sparxmaths.com

Corbett maths contains videos, worksheets and exam questions on every topic at GCSE. The link is below:

www.corbettmaths.co.uk

One website that has past exam papers and exam questions on all topics is Maths Genie. The link is below:

<http://www.mathsgenie.co.uk>