

## Number

Topic	Topic code	R	A	G
Adding and subtracting mixed numbers	U793			
Multiply with mixed numbers	U224			
Converting recurring decimals to fractions	U689			
Estimating calculations	U225			
Using standard form with positive indices	U330			
Using standard form with negative indices	U534			
Adding and subtracting numbers in standard form	U290			
Finding the highest common factor	U529			
Prime factor decomposition	U739			
Finding the HCF and LCM using prime factor decomposition	U250			
Finding error intervals	U657			
Finding bounds for calculations	U587			
Adding and subtracting surds	U872			
Rationalising denominators containing a single term	U707			
Rationalising denominators containing two terms	U281			

## Algebra

Topic	Topic code	R	A	G
Position-to-term rules for arithmetic sequences	U498			
Term-to-term rules	U213,			
Substituting into real-life formulae	U144			
Finding equations of straight line graphs	U315			
Equations of parallel lines	U377			
Expanding triple brackets	U606			
Solving simultaneous equations using elimination	U760			
Factorise to solve quadratics	U960			
Simultaneous equations involving quadratics	U547			
Plotting graphs of quadratic functions	U989			
Interpreting graphs of quadratic functions	U667			
Solving quadratic equations graphically	U601			
Solving quadratic inequalities	U133			
Finding the turning point of a quadratic graph by completing the square	U769			
Graphs of linear inequalities	U747			
Graphs of cubic functions	U980			
Graphs of reciprocal functions	U593			
Graphs of trigonometric functions	U450			
Transforming graphs	U455			
Estimate areas under non-linear graphs	U882			
Simplifying algebraic fractions by cancelling common factors	U103			
Dividing algebraic fractions	U824			
Substituting into iterative formulae	U434			
Substituting into functions	U637			
Substituting into composite functions	U895			
Finding inverse functions	U996			
Constructing inverse proportion equations	U138			
Equations of circles & tangents	U567			

## Geometry and Measures

Topic	Topic code	R	A	G
Plans and elevations	U743			
Finding the area of compound shapes	U970			
Finding the volume of cubes and cuboids	U786			
Finding the volume of cylinders	U915			
Finding unknown sides in similar shapes	U578			
Finding the surface area and volume of similar shapes	U110			
Enlargement by a positive or negative scale factor	U134			
Combining transformations	U766			
Multiplying column vectors by a scalar	U564			
Solving geometric problems using vectors	U781			
Identifying parallel vectors	U660			
Understanding sin, cos and tan	U605			
Using the exact values of trigonometric ratios	U319			
The sine rule	U952			
Finding the arc length of sectors	U221			
Proving the circle theorems	U807			

## Statistics and Probability

Topic	Topic code	R	A	G
Drawing cumulative frequency graphs	U182			
Interpreting cumulative frequency graphs	U642			
Drawing box plots	U879			
Comparing populations using box plots and cumulative frequency graphs	U507			
Drawing histograms with unequal class widths	U814			
Interpreting histograms	U983			
Calculating the mean	U291			
Probabilities as fractions, decimals and percentages,	U510			
Using the product rule for counting	U369			
Tree diagrams for independent events	U558			
Tree diagrams for dependent events	U729			
Venn diagrams with set notation	U748			

## Ratio, Proportion and Rates of change

Topic	Topic code	R	A	G
Combine ratios	U921			
Writing and simplifying ratios	U687			
Calculating with density	U910			
Finding the percentage an amount has been changed by	U278			
Compound interest calculations	U332			
Growth and decay	U988			
Drawing and interpreting scale diagrams	U257			
Solving direct proportion word problems	U721			