

Revision List - Foundation

Grade C Skills Are:	I understand and can do	I need to revise further
Estimation and division by a number of less than 1		
Calculating compound interest - no rounding necessary		
Using a calculator in complex situations		
Multiplication and division by a number between 0 and 1		
Calculating with fractions and mixed numbers		
Reciprocals		
Calculating with ratios		
Calculating percentage decrease and increase		
Multiplication and division by powers of 10 and decimals		
Finding the prime factor decomposition of a number		
Using the rules of indices in numeric situations		
Calculating problems involving numbers in standard form		
Solving simultaneous equations by graphical methods		
Solving cubic equations by trial and improvement		
Rearranging simple formulae		
Solving equations		
Solving inequalities		
Expanding brackets and simplifying the result		
Using $y = mx+c$ to find the gradient and equation of a line without drawing		
Graphing quadratic functions in simple cases		
Solving quadratic equations graphically		
Interpreting real-life graphs, eg travel graphs		
Finding the n^{th} term for a linear sequence		
Finding the length of a line given 2 points		
Substitution into complex formulae		
Finding dimensions of a formulae		
Constructing the perpendicular bisector of a given line		
Constructing loci		
Finding volumes of 3D shapes including prisms		
Using coordinates in 3D problems		
Calculating area or circumference of a circle from diameter		
Carry out transformations including translation with vectors		
Use of Pythagoras' Theorem and trigonometry		
Carrying out constructions, eg triangles in all situations		
Solving problems involving polygons, eg interior angles		
Understanding, using and solving problems with bearings		

Grade D Skills Are:	I understand and can do	I need to revise further
Estimation		
Calculating profit and loss		
Solving problems involving a proportion in simple cases		
Calculating an increase or decrease by a percentage		
Calculating with fractions in simple cases		
Calculating with ratios in recipes		
Expanding brackets such as $x(x+4)$		
Factorising, eg x^2-5x and $12x-8$		
Understanding unstructured linear graphs		
Deriving and solving equations from diagrams		
Substituting negative numbers into algebraic expressions		
Expanding and simplifying brackets and expressions		
Solving equations, including unknowns on both sides		
Converting between units of area, eg m^2 to cm^2		
Calculating area or circumference of a circle given radius		
Finding area of triangle, regular polygons, compound shapes		
Drawing and measuring bearings		
Finding midpoint of a line given the end coordinates		
Carrying out simple transformations		
Solving simple problems involving polygons		
Solving problems involving similar triangles (+ve scale factor)		
Constructing and interpreting plans and elevations		
Solving problems involving parallel lines		
Knowing triangle proofs (exterior angle and angle-sum)		

Grade E Skills Are:	I understand and can do	I need to revise further
Simplifying ratios		
Using a calculator, eg '1.5 ³ ' and 'square root of 23.78'		
Rounding to 1 significant figure		
Calculating with fractions in simple cases		
Long multiplication and division, including decimals and negatives		
Finding percentages by mental methods		
Ordering fractions, decimals and percentages		
Calculating indices and roots, eg '4 ³ ', '2 ³ ×3 ² ', 'the cube of 4'		
Using the four rules of negative numbers		
Calculating VAT		
Constructing simple linear graphs		
Simplifying simple algebra		
Using a formula inversely, eg find x if y=3 where y=2x-1		
Using conversion graphs		
Recognising complex number sequences		
Solving simple equations, eg 3y+2 = 8		
Understanding the geometry of triangles and quadrilaterals		
Measuring simple bearings		
Carrying out enlargements in simple cases		
Converting between metric and imperial units using known facts		
Calculating volumes in simple cases		
Completing tessellations		
Finding area and perimeter of rectangles and kites		
Identifying planes of symmetry		
Working with nets of shape		
Constructing accurate drawings and angles		
Carrying out simple transformations		

Grade F Skills Are:	I understand and can do	I need to revise further
Carrying out long multiplication and division: 3-digit by 2-digit		
Calculating simple percentages of quantities		
Calculating simple fractions of quantities		
Understanding the order of operations		
Rounding to various decimal places		
Understanding place value		
Finding simple squares, cubes and roots		
Finding factors of numbers		
Converting between fractions, decimals and percentages		
Using negative numbers in context		
Finding terms in a linear sequence		
Recognising non-linear number sequences		
Using coordinates in four quadrants		
Using simple formulae		
Solving simple equations, eg $5x=25$ and $x-2=6$		
Deriving simple expressions		
Estimating lengths		
Using simple scale drawings		
Naming, measuring and drawing angles		
Naming polygons		
Identifying lines of symmetry		
Identifying rotational symmetry		
Using the angle sum on a straight line = 180°		
Identifying faces, edges and vertices		

Grade 6 Skills Are:	I understand and can do	I need to revise further
Rounding to the nearest integer		
Interpreting bills and timetables		
Rounding to the nearest 10, 100 and 1000		
Identifying fractions from a shaded diagram		
Identifying percentages from a shaded diagram		
Calculating simple fractions of quantities (numerator of 1)		
Ordering decimals		
Ordering, reading and writing whole numbers		
Converting fractions to a ratio, eg $\frac{1}{3}$ of a whole 1:2		
Using coordinates in one quadrant		
Reading from simple real-life graphs		
Find the next term in a simple linear sequence		
Finding areas, perimeters and volumes by counting		
Drawing 2D shapes		
Measuring and drawing lines		
Drawing circles		
Naming shapes		
Drawing lines of symmetry on a diagram		
Using a given line of reflection		
Completing accurate drawings of given shapes		