

Week	Higher	Foundation
1	<b>Number:</b> Product of prime factors, HCF & LCM, Indices, standard form, surds.	<b>Number:</b> Calculations, decimals, factors & multiples, squares, cubes & roots, indices, prime factors, standard form.
2	<b>Algebra:</b> Expanding and factorising, solving equations, using formulae, nth term of sequences.	<b>Algebra:</b> Writing expressions, simplifying expressions, substitution, using formulae, factorising & expanding.
3	<b>Interpreting and representing data:</b> Scatter graphs, averages & range, cumulative frequency, box plots, histograms.	<b>Charts, tables and graphs:</b> Frequency tables, two-way tables, stem & leaf, pie charts, scatter graphs.
4	<b>Fractions, ratio and percentages:</b> calculations with fractions, solving problems with ratio, direct proportion, inverse proportion.	<b>Fractions and percentages:</b> Adding, subtracting, multiplying and dividing fractions. Calculating percentages. Converting between fractions, decimals and percentages.
5	<b>Angles and trigonometry:</b> Angle properties of triangles and quadrilaterals, interior & exterior angles, Pythagoras, trigonometry.	<b>Equations, inequalities and sequences:</b> Solving equations, nth term of sequences, solving inequalities, solving quadratic equations.
6	<b>Graphs:</b> Linear graphs, real-life graphs, quadratic graphs, cubic & reciprocal graphs.	<b>Angles:</b> Angles in parallel lines, angles in triangles, interior & exterior angles.
7	<b>Area and volume:</b> Perimeter, area, converting between different units, volume of prisms, circles, cylinders & spheres, pyramids & cones.	<b>Averages and range:</b> Mean, median, mode, range. Averages from tables.
8	<b>Transformations and constructions:</b> Reflection, rotation, enlargement, translation, bearings, scale drawing, constructions, loci.	<b>Perimeter, area and volume:</b> Calculating area of rectangles, parallelograms, triangles, trapezia, changing units, compound shapes, surface area, volume, circumference & area of a circle and parts of circles, volume of cylinders, pyramids, cones, spheres & compound solids.
9	<b>Equations and inequalities:</b> Solving quadratic equations, solving simultaneous equations, solving inequalities.	<b>Graphs:</b> Coordinates, linear graphs, real-life graphs, plotting & using quadratic graphs.
10	<b>Probability:</b> Calculating probabilities, tree diagrams, conditional probability, venn diagrams.	<b>Transformations:</b> Translation, reflection, rotation, enlargement.
11	<b>Compound measures:</b> Speed / distance / time, mass / density / volume, force / pressure / area.	<b>Ratio and proportion:</b> Writing & using ratios, direct & inverse proportion.

12	<b>Similarity and congruence:</b> Similarity, similarity in 3d solids, congruence.	<b>Right angled triangles:</b> Pythagoras, trigonometry.
13	<b>Further trigonometry:</b> Graphs of sine, cosine and tangent functions, Sine rule and sine formula for area, cosine rule, 3d trig problems, transforming trig graphs.	<b>Probability:</b> Calculating probability, venn diagrams, tree diagrams.
14	<b>Circle theorems:</b> Using, explaining and proving.	<b>Compound measures:</b> speed / distance / time, mass / density / volume, force / pressure / area.
15	<b>Further algebra:</b> Rearranging formulae, algebraic fractions, functions, proof, transformations of functions, iteration.	<b>Constructions, loci and bearings:</b> plans & elevations, scale drawings, constructions, loci, bearings.
16	<b>Vectors:</b> vector notation, vector arithmetic, vector proof.	<b>Congruence, similarity &amp; vectors:</b> Similarity & enlargement, vectors.
17	<b>Further graphs:</b> Estimating & interpreting gradient of graphs at a point, estimating and interpreting area under a curve.	<b>Further algebra:</b> Graphs of cubic and reciprocal functions, solving simultaneous equations, rearranging formulae, proof.