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| **Week** | **Higher** | **Foundation** |
| 1 | **Number:** Product of prime factors, HCF & LCM, Indices, standard form, surds. | **Number:** Calculations, decimals, factors & multiples, squares, cubes & roots, indices, prime factors, standard form. |
| 2 | **Algebra:** Expanding and factorising, solving equations, using formulae, nth term of sequences. | **Algebra:** Writing expressions, simplifying expressions, substitution, using formulae, factorising & expanding. |
| 3 | **Interpreting and representing data:** Scatter graphs, averages & range, cumulative frequency, box plots, histograms. | **Charts, tables and graphs:** Frequency tables, two-way tables, stem & leaf, pie charts, scatter graphs. |
| 4 | **Fractions, ratio and percentages:** calculations with fractions, solving problems with ratio, direct proportion, inverse proportion. | **Fractions and percentages:** Adding, subtracting, multiplying and dividing fractions. Calculating percentages. Converting between fractions, decimals and percentages. |
| 5 | **Angles and trigonometry:** Angle properties of triangles and quadrilaterals, interior & exterior angles, Pythagoras, trigonometry. | **Equations, inequalities and sequences:** Solving equations, nth term of sequences, solving inequalities, solving quadratic equations. |
| 6 | **Graphs:** Linear graphs, real-life graphs, quadratic graphs, cubic & reciprocal graphs. | **Angles:** Angles in parallel lines, angles in triangles, interior & exterior angles. |
| 7 | **Area and volume:** Perimeter, area, converting between different units, volume of prisms, circles, cylinders & spheres, pyramids & cones. | **Averages and range:** Mean, median, mode, range. Averages from tables. |
| 8 | **Transformations and constructions:** Reflection, rotation, enlargement, translation, bearings, scale drawing, constructions, loci. | **Perimeter, area and volume:** 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 | **Equations and inequalities:** Solving quadratic equations, solving simultaneous equations, solving inequalities. | **Graphs:** Coordinates, linear graphs, real-life graphs, plotting & using quadratic graphs. |
| 10 | **Probability:** Calculating probabilities, tree diagrams, conditional probability, venn diagrams. | **Transformations:** Translation, reflection, rotation, enlargement. |
| 11 | **Compound measures:** Speed / distance / time, mass / density / volume, force / pressure / area. | **Ratio and proportion:** Writing & using ratios, direct & inverse proportion. |
| 12 | **Similarity and congruence:** Similarity, similarity in 3d solids, congruence. | **Right angled triangles:** Pythagoras, trigonometry. |
| 13 | **Further trigonometry:** Graphs of sine, cosine and tangent functions, Sine rule and sine formula for area, cosine rule, 3d trig problems, transforming trig graphs. | **Probability:** Calculating probability, venn diagrams, tree diagrams. |
| 14 | **Circle theorems:** Using, explaining and proving. | **Compound measures:** speed / distance / time, mass / density / volume, force / pressure / area. |
| 15 | **Further algebra:** Rearranging formulae, algebraic fractions, functions, proof, transformations of functions, iteration. | **Constructions, loci and bearings:** plans & elevations, scale drawings, constructions, loci, bearings. |
| 16 | **Vectors:** vector notation, vector arithmetic, vector proof. | **Congruence, similarity & vectors:** Similarity & enlargement, vectors. |
| 17 | **Further graphs:** Estimating & interpreting gradient of graphs at a point, estimating and interpreting area under a curve. | **Further algebra:** Graphs of cubic and reciprocal functions, solving simultaneous equations, rearranging formulae, proof. |