

Unit 3 Higher Revision Lists

Number

- 1) Ratio and Proportion – direct and inverse proportion.
- 2) Fractions –Addition/Subtraction/Multiplication and Division
- 3) Percentages – Compound interest and depreciation.
- 4) Surds
- 5) Upper and Lower bounds
- 6) Distance/Time and Velocity/Time graphs.

Algebra

- 1) Formulae – Substitution of values into formulae. Rearranging formulae.
- 2) Solving equations.
- 3) Trial and improvement.
- 4) Inequalities
- 5) Straight line graphs – gradients and y intercepts. $Y = mx + c$ Completing table values correctly and plotting coordinates for a linear and quadratic graphs.
- 6) Simultaneous equations and graphs.
- 7) Quadratic graphs.
- 8) Travel/Conversion and real life graphs.
- 9) Graph recognition.
- 10) Factorising quadratics – quadratic formula.
- 11) Completing the square.
- 12) Trial and improvement.

Shape and Space

- 1) Regular polygons.
- 2) Plans, elevations.
- 3) Congruence and similarity.
- 4) Pythagoras' theorem - bearings and coordinates.
- 5) Circle Geometry – circumference, area, and circle theorems.

6) Constructions and Loci

7) Symmetry

8) The four transformations – reflections, rotations, translations, and enlargements.
Combinations of the above transformations.

9) Enlargements – Scale Factors.

10) Length, Area, and Volume.

11) 3D shapes and Converting Measures.

12) Maps and Scale maps.

13) Surface area and volume.

14) Trigonometry.

15) Sine and Cosine rules.

16) 3D Pythagoras and Trigonometry.

17) Vectors – real life vectors.

18) Graphs of Sin, Cos, and Tan.

19) Graphs of shifts and stretches.