



KS4 Skills

AO1 Use and apply standard techniques

- accurately recall facts, terminology and definitions
- use and interpret notation correctly
- accurately carry out routine procedures or set tasks requiring multi-step solutions.

AO2 Reason, interpret and communicate mathematically

- make deductions, inferences and draw conclusions from mathematical information
- construct chains of reasoning to achieve a given result
- interpret and communicate information accurately
- present arguments and proofs
- assess the validity of an argument and critically evaluate a given way of presenting information

AO3 Solve problems within mathematics and in other contexts

- translate problems in mathematical or nonmathematical contexts into a process or a series of mathematical processes
- make and use connections between different parts of mathematics
- interpret results in the context of the given problem
- evaluate methods used and results obtained
- evaluate solutions to identify how they may have been affected by assumptions made

Sets 5-8

Year 9 Foundation Knowledge

Unit 1 Number

Unit 2 Algebra

Unit 3 Graphs, tables and charts

Unit 4 Fractions and percentages

Unit 5 Equations, inequalities and sequences

Unit 6 Angles

Unit 7 Averages and range

Unit 8 Perimeter, area and volume 1

Year 10 Foundation Knowledge

Unit 9 Graphs

Unit 10 Transformations

Unit 11 Ratio and proportion

Unit 12 Right-angled triangles

Unit 13 Probability

Unit 14 Multiplicative reasoning

Unit 15 Constructions, loci and bearings

Unit 16 Quadratic equations and graphs

Unit 17 Perimeter, area and volume 2

Year 11 Foundation Knowledge

Unit 18 Fractions, indices and standard form

Unit 19 Congruence, similarity and vectors

Unit 20 More algebra

Recap of ALL units 1-20 which will be bespoke for each class

