



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

Year 9 Higher Knowledge

Unit 1 Number
Unit 2 Algebra
Unit 3 Interpreting and representing data
Unit 4 Fractions, ratio and proportion
Unit 5 Angles and trigonometry
Unit 6 Graphs
Unit 7 Area and volume
Unit 8 Transformation and constructions
Unit 9 Equations and inequalities

Year 10 Higher Knowledge

Unit 10 Probability
Unit 11 Multiplicative reasoning
Unit 12 Similarly and congruence
Unit 13 More trigonometry
Unit 14 Further statistics
Unit 15 Equations and graphs
Unit 16 Circle theorems
Unit 17 More algebra
Unit 18 Vectors and geometric proof
Unit 19 Proportion and graphs

Year 11 Higher Knowledge

Additional Maths with set 1

Algebra
Enumeration
Coordinate Geometry
Pythagoras and Trigonometry
Calculus
Numerical Methods
Exponentials and Logarithms

Further Maths with set 2

Number
Algebra
Coordinate Geometry (2 dimensions only)
Calculus
Matrix Transformations
Geometry