



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 13.7 3D Problems
Unit 6.1-6.5 Graphs
Unit 7 Area and volume
Unit 8 Transformation and constructions
Unit 9.1-9.3 Equations and inequalities
Unit 17.2-17.4, 17.6 More algebra
Unit 9.4-9.7 Equations and inequalities

Year 10 Higher Knowledge

Unit 10 Probability
Unit 11 Multiplicative reasoning
Unit 12 Similarly and congruence
Unit 13.1-13.6 More trigonometry
Unit 14 Further statistics
Unit 6.6-6.8 Graphs
Unit 15 Equations and graphs
Unit 16 Circle theorems
Unit 17.7 More algebra
Unit 13.8-13.9 More trigonometry
Unit 19.6-19.7 Transforming graphs
Unit 17.8 Proof
Unit 18 Vectors and geometric proof

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

Bespoke GCSE Maths SOW with set 3 and 4



Unit 19.1-19.5 Proportion and graphs	
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