MATHEMATICS - SUPPORT

Skills

Knowledge

Mastery in Year 11
- To be able to apply and link learning to solve mathematical problems.
- Interpret statistical diagrams.
- Problem-solving with numbers and algebra.

Mastery in Year 10
- To develop fluency and skills and number and algebra specifically calculations and algebraic manipulation.
- Apply to logical thinking and ratio and proportion problems.

Mastery in Year 9
- Build on key skills and deepen understanding in preparation for GCSE.
- Algebra: investigate applications, quadratic expressions and equations, linear graphs.
- Problem-solving with numbers.
- Investigate different geometrical topics.

Mastery in Year 8
- Develop fundamental skills.
- Percentages.
- Shapes and angles.
- Algebra equations and applications.
- Understand probability.

Mastery in Year 7
- Build confidence and depth of understanding on core maths skills required for future problem-solving.
- Number skills.
- Algebraic manipulation.
- Analyse statistics.

Geometry
Volume and surface area
Pythagoras theorem

Statistics and probability
Analyse data and charts
Apply properties of probability

Number and ratio
Rounding
Properties of number
Use ratio and proportion
Standard form

Algebra
Manipulation
Equations
Graphs
Quadratic expressions, equations and graphs

Geometry
Perimeter
Area

Y11

Geometry
Angles

Algebra
Manipulation
Linear equations

Number
Fractions
Decimals
Percentages

Algebra
Manipulation
Linear sequences
Linear graphs

Ratio and proportion
Use ratios
Use proportions

Number
Structure and calculation
Decimals and integers
Indicies

Y10

Geometry
Angles, Pythagoras and trigonometry

Number
Properties
Powers
Standard form

Algebra
Linear graphs

Ratio and proportion

Geometry
Volume and surface area

Algebra
Quadratic expressions and equations

Y9

Geometry
Perimeter and area

Algebra
Equations
Changing the subject
Inequalities

Geometry
Shapes and angles

Number
Percentages

Fractions and equivalents

Number

Y8

Probability

Averages and charts

Manipulation and sequences

Number
Operations and decimals

Statistics

Algebra

Fractions and ratio

Measures and number

Numbers and ratio

Number

Y7

6