Year 10

Subject Name:	Mathematics

Key Stage 4 (GCSE)

Curriculum Intent Statement

Our curriculum will encourage pupils to be efficient, resilient problems solvers, able to apply their mathematical skills to any real life context they encounter after leaving the academy.

Through learning mathematics, our pupils will develop the logical thinking skills to break problems in a wide range of contexts into manageable steps.
Pupils will embrace the interconnected nature of the concepts within mathematics and how mathematics can be applied to contexts within everyday life, academia and careers. Their mathematical skills and knowledge will open doors for our pupils to select whichever future path they choose.

Autumn Term 1

Topic: Coordinates, linear graphs, proportion and standard form
BLQ: What's the point of a graph?

Knowledge and skills covered:

- Unit 1 – Coordinates
- Unit 2 – Linear graphs
- Unit 3 – Direct and indirect proportion
- Unit 4 – Scales and standard form

Autumn Term 2

Topic: Algebraic expressions
BLQ: Why don't we change the subject?

Knowledge and skills covered:

- Unit 5 – Sequences
- Unit 6 – Expanding and factorising brackets
- Unit 7 – Changing the subject of a formula

Spring Term 1

Topic: 2D geometry
BLQ: What's the difference between congruence and similarity?

Knowledge and skills covered:

- Unit 8 – Constructions
- Unit 9 – Congruence and similarity
- Unit 10 – Triangles and quadrilaterals
- Unit 11 – Angles in polygons

Spring Term 2

Topic: Equations and inequalities
BLQ: How can you solve simultaneous equations?

Knowledge and skills covered:

- Unit 12 – Linear equations and inequalities
- Unit 13 – Simultaneous equations
- Unit 14 – Quadratic and other graphs

Summer Term 1

Topic: Geometry
BLQ: Who was Pythagoras?

Knowledge and skills covered:

- Unit 15 – Pythagoras and Trigonometry
- Unit 16 – Transformations
- Unit 17 – Probability

Summer Term 2

Topic: Statistics
BLQ: What's the average?

Knowledge and skills covered:

- Unit 18 – Proof
- Unit 19 – Mean from grouped data
- Unit 20 – Comparing data distributions
- Unit 21 – Scatter graphs