Subject Name:	**Mathematics**

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: Making generalisations about the number system (1) **Big Learning Question: what is a number?** **Knowledge and skills covered:** • Unit 1 – Numbers and numerals • Unit 2 – Axioms and arrays • Unit 3 – Factors and multiples • Unit 4 – Order of operations

Autumn Term 2
Topic: Making generalisations about the number system (2) **Big Learning Question: why do we use y?** **Knowledge and skills covered:** • Unit 5 – Positive and negative numbers • Unit 6 – Introducing sequences, expressions and equations

Spring Term 1
Topic: 2D Geometry **Big Learning Question: how do I find missing angles?** **Knowledge and skills covered:** • Unit 7 – Angles • Unit 8 – Classifying 2D shapes • Unit 9 – Constructing triangles and quadrilaterals

Spring Term 2

Topic: The Cartesian plane
Big Learning Question: what is area?
Knowledge and skills covered:
- Unit 10 – Co-ordinates
- Unit 11 – Area of 2D shapes
- Unit 12 – Transforming 2D figures

Summer Term 1

Topic: Fractions
Big Learning Question: what is a fraction?
Knowledge and skills covered:
- Unit 13 – Prime factor decomposition
- Unit 13 – Equivalent fractions
- Unit 14 – All operations acting on fractions

Summer Term 2

Topic: Ratio and proportion
Big Learning Question: what is ratio and when do I use them?
Knowledge and skills covered:
- Unit 15 – Ratio
- Unit 16 – Percentages