

<b>Subject Name:</b>	<b>Mathematics</b>
<b>Curriculum Intent Statement</b>	
<p>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.</p> <p>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.</p>	
<b>Autumn Term 1</b>	
<p><b>Topic: Prime numbers, factorisation and calculating with fractions</b> <b>BLQ: What's so special about prime numbers?</b></p> <p><b>Knowledge and skills covered:</b></p> <ul style="list-style-type: none"> <li>• Unit 1 – Prime numbers and factorisation</li> <li>• Unit 2/3 – Calculating with fractions</li> </ul>	
<b>Autumn Term 2</b>	
<p><b>Topic: Algebra</b> <b>BLQ: How do you solve an equation?</b></p> <p><b>Knowledge and skills covered:</b></p> <ul style="list-style-type: none"> <li>• Unit 4 – Positive and negative numbers</li> <li>• Unit 5 – Sequences, expressions and equations</li> </ul>	
<b>Spring Term 1</b>	
<p><b>Topic: 2D geometry</b> <b>BLQ: How can you draw a perfect triangle?</b></p> <p><b>Knowledge and skills covered:</b></p> <ul style="list-style-type: none"> <li>• Unit 6/7 – Triangles and quadrilaterals</li> <li>• Unit 8 – Find missing angles</li> <li>• Unit 9 – Area of parallelograms and trapezia</li> </ul>	

## **Spring Term 2**

**Topic: Proportional Reasoning**

**BLQ: What has maths got to do with my life?**

**Knowledge and skills covered:**

- Unit 10 – Percentage change
- Unit 11 – Ratio and rate

## **Summer Term 1**

**Topic: Statistics**

**BLQ: How does a journalist use maths?**

**Knowledge and skills covered:**

- Unit 12 – Collect and organise data
- Unit 13 – Present data
- Unit 14 – Interpret and compare statistical representations

## **Summer Term 2**

**Topic: 3D geometry**

**BLQ: How does an architect use maths?**

**Knowledge and skills covered:**

Unit 15 – Rounding, significant figures and estimation

Unit 16 – Circumference and area of a circle

Unit 17 – 3D shapes and their nets

Unit 18 – Surface area and volume of cuboids, prisms, cylinders and composite solids