

# Maths

## What is our Curriculum Intent?

Students feel confident to apply maths in different contexts with amazing outcomes to aid them

## How does our Curriculum meet the Academy's 6 Curriculum Core Principles

### Is anchored in our Christian Values

*Our curriculum is delivered successfully through effective use of achievement points which celebrate students ability to demonstrate the core values in their maths lessons. Teachers model these values both in their lessons and in their interactions with each other.*

### Is fully inclusive and celebrates diversity

*Our curriculum is anchored in the idea that everyone can be successful in maths regardless of their gender or background. We educate students about women and people of colour working in STEM to model future pathways available for all.*

### Values all subjects, both core and creative, academic and vocational

*Our curriculum gives students the skills to access learning in other subjects from statistical analysis in geography to the essential understanding of ratio applied in chemistry.*

### Develops students' ability to be resilient, reflective, resourceful and responsible learners

*Our curriculum focuses on the development of problem solving skills. We build students resilience in tackling problems through stretch and challenge tasks in KS3, regular exposure to problem solving tasks at KS4 and the study of mathematical modelling at KS5.*

### Provides pathways for academic success

*Our curriculum develops the fluency in mathematical procedures and the confidence to apply these operations in unfamiliar contexts that is required to be successful in examinations.*

### Prepares students beyond knowledge and skills to be successful in tomorrow's world

*Our curriculum teaches students to approach problems in a systematic and logical way along with developing the numeracy required to recognise good financial decisions*

## What are we trying to achieve at KS3

Build enthusiasm for learning mathematics by developing students' understanding of and ability to apply standard techniques alongside fluency in routine procedures

## What are we trying to achieve at KS4

Develop a cohort of versatile mathematicians who are reflective and collaborative problem solvers with a growing passion for maths

## What are we trying to achieve at KS5

Further build an appreciation of the depth of connections in maths (and with other subjects) and the benefits of utilising technology without being reliant on it.

#### What makes our curriculum offer unique & local?

We work with local primary schools, through the MathsHubs, to streamline the transition from primary to secondary through a consistency in teaching techniques. We draw on local developments to give context to our lessons as students learn about modelling such as investigating the mechanics of cranes in the local area.

#### What is studied at KS3?

Year 7	Year 8
Number	
Shape and measure	
Factors and Multiples	
Expression and Formulae	
Fractions, Decimals and Percentages	
Angles and 2D shapes	
Equations	
Statistics	
Graphs and Coordinates	
Transformations and Symmetry	
Ratio and Proportion	
Probability	