

## **KS4 Mathematics**

### **AQA GCSE Mathematics**

#### **What does this course involve?**

This linear course follows the new GCSE curriculum and covers the following areas:

- Number
- Algebra
- Ratio, proportion and rates of change
- Geometry and measures
- Probability
- Statistics

This qualification is available at a Foundation level (grades 1 to 5) and at a Higher level (grades 4 to 9), with level of entry into final examinations decided through regular assessments of students' progress.

#### **What will I learn?**

In this course, you will learn how to:

- solve problems using your mathematical skills
- experiment, collect information and present data clearly
- develop your functional skills and link maths to real life situations

Through the skills you learn, this course will prepare you for a wide range of careers.

#### **Assessment:**

100% through examinations at end of course - with one non-calculator and two calculator papers

## **Edexcel Maths Functional Skills qualification**

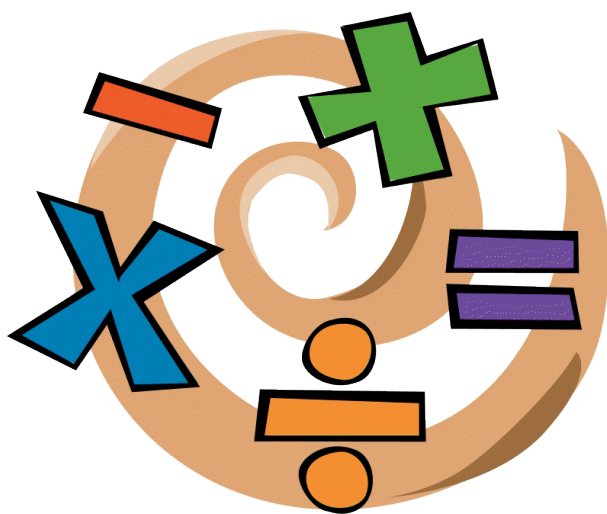
For those students who may not be ready for a GCSE or will benefit from reinforcing their basic mathematics while studying towards a higher qualification, we offer the Edexcel Functional Skills qualification in Mathematics.

The course offers the students the opportunity to build their confidence in using mathematics, applying mathematics to relevant, realistic situations and in using their mathematics knowledge to solve problems.

Learners can:

- understand and represent simple mathematical information in familiar contexts and situations
- use mathematics to obtain answers to simple given practical problems that are clear and routine
- generate results that make sense for a specified task and analyse calculations
- provide solutions to simple given practical problems in familiar contexts and situations

This qualification is available at Entry Levels 1, 2 and 3 as well as Levels 1 and 2. Assessment at each level is provided through a single, external test (either on paper or online).



Maths			
Key Stage 4	Autumn	Spring	Summer
GCSE (AQA) Year 1	<ul style="list-style-type: none"> <li>• Working with Integers</li> <li>• Properties of Integers</li> <li>• Collecting, interpreting and representing data</li> <li>• Analysing Data</li> <li>• Working with fractions</li> <li>• Working with decimals</li> <li>• Basic algebra</li> </ul>	<ul style="list-style-type: none"> <li>• Properties of polygons and 3D objects</li> <li>• Angles</li> <li>• Perimeter</li> <li>• Area</li> <li>• Rounding and Estimation</li> <li>• Percentages</li> <li>• Powers and Roots</li> <li>• Standard Form</li> </ul>	<ul style="list-style-type: none"> <li>• Further algebra</li> <li>• Equations</li> <li>• Functions and sequences</li> <li>• Basic probability</li> <li>• 3D objects</li> <li>• Units and measure</li> <li>• Formulae</li> <li>• Revision</li> <li>• End of year assessment</li> </ul>
GCSE (AQA) Year 2	<ul style="list-style-type: none"> <li>• Volume and surface area</li> <li>• Further probability</li> <li>• Inequalities</li> <li>• Ratio</li> <li>• Proportion</li> <li>• Graphs of linear functions</li> <li>• Interpreting graphs</li> </ul>	<ul style="list-style-type: none"> <li>• Vector geometry</li> <li>• Transformations in a plane</li> <li>• Construction and loci</li> <li>• Similarity</li> <li>• Congruence</li> <li>• Pythagoras' Theorem</li> <li>• Trigonometry</li> </ul>	<ul style="list-style-type: none"> <li>• Graphs of other functions and equations</li> <li>• Growth and decay</li> <li>• Revision</li> <li>• Final examinations</li> </ul>

Maths			
Key Stage 4	Autumn	Spring	Summer
Entry Level Functional Skills (Edexcel)	<ul style="list-style-type: none"> <li>• Number and Place Value</li> <li>• Addition and subtraction</li> <li>• Measuring length, weight, temperature &amp; capacity</li> <li>• Working with scales</li> </ul>	<ul style="list-style-type: none"> <li>• Dates and calendars</li> <li>• Reading time</li> <li>• Money</li> <li>• Shapes and their properties (2D &amp; 3D)</li> </ul>	<ul style="list-style-type: none"> <li>• Multiplication and Division</li> <li>• Fractions</li> <li>• Working with information (<i>graphs, charts and tables</i>)</li> <li>• End of year assessment</li> </ul>