

# Mathematics

GCSE – EDEXCEL

Subject Leader: Mr Nangalia

## What's it all about?

The GCSE curriculum is designed to extend your knowledge further on all key aspects of the curriculum that has been studied at key stage 3. Students will learn how to apply their knowledge to solve problems in a variety of contexts. This course will help you to develop as a logical thinker and as a problem solver.

## Who should take it?

All students have to take mathematics; it is a core subject.

## What will I learn on this course?

At key stage 4, the mathematics curriculum is broken down into number, ratio, proportion & rates of change, algebra, geometry and statistics and probability. There is an element of functional mathematics which will develop the students' understanding of using mathematics in practical situations, which is now included as a routine part of the GCSE mathematics examination.

## How will I be assessed?

Students will be assessed in examination/timed conditions throughout their learning journey using half-termly assessments. Assessments will consist of 75% skills style questions, which will help students identify their strengths and weaknesses and an additional 25% of functional style questions, which require students to apply their knowledge. In Year 11, students will sit an assessment at the end of the first half-term based on GCSE exam material and will sit two full mock examinations in January and March. Depending on the group the student is in, they will sit either the Linear Higher or Foundation GCSE examination in the Summer of Year 11. There is no controlled assessment or coursework element to GCSE mathematics.

## What do your current students say?

"I really like my maths teacher because he lets me know what level I need to work at and what I can improve on"

"We use good resources online"

"Maths is really good, I enjoy the lessons as they make me think"

## Is there anything else I need to know?

As well as the standard equipment, each pupil is expected to have the following equipment for mathematics lessons: 30cm ruler and a scientific calculator – For GCSE we recommended the Casio natural display calculator FX-85GTPLUS which can be bought directly from the school. Other recommended equipment: a 180 degree protractor, and a pair of compasses.

## Who can I contact for further information?

[rnangalia@kingcharles1.worcs.sch.uk](mailto:rnangalia@kingcharles1.worcs.sch.uk)