



Wigston College

Core Mathematics

A Level 2021 - 2023

Entry Requirements:

GCSE Grade 5 in Maths

What will I be studying?

This qualification is designed to support post-16 learners with the mathematical and statistical needs of their further study of other subjects, as well as for employment and everyday life. The needs of learners preparing for a variety of technical and professional roles are met through learning about mathematical modelling, costing, risk and the use of spreadsheets. Financial problem solving is a part of the qualification; this is important for all learners, irrespective of their future ambitions.

Key Outcomes:

- Sound understanding of mathematical concepts, skills and techniques from GCSE and beyond
- Fluency in procedural skills, common problem solving skills and strategies
- Confidence in applying mathematical and statistical thinking and reasoning in a range of new and unfamiliar contexts to solve real-life problems
- Competency in interpreting and explaining solutions of problems in context

Component 1 - Introduction to Quantitative Reasoning

Component 2 - Statistical Problem Solving

How will I be studying?

This course will be taught in a group with two teachers. You will be expected to make an active contribution to whatever you are working on, whether it be a group-based or solo based piece of work: assignments will include both written work and research. Students will be expected to participate in class discussions and share their research with the group.

How will I be assessed?

This is a one year course and will be assessed at the end of the academic year.

Introduction to Quantitative Reasoning - 2 hour written paper. Statistical Problem Solving - 2 hour written paper

Where Next?

There has been a tremendous amount of coverage in the Media recently about the UK's gap in basic maths skills. Only 20% of students study maths beyond GCSE in the UK – the lowest rate in leading developed countries in the world. This puts young people in the UK at a major disadvantage in a global job market. An investigation into the mathematical and statistical requirements in undergraduate disciplines, reported that many students arrive at university with unrealistic expectations of the mathematical and statistical demands of their subjects which leads to a lack of confidence and anxiety by the students. This course has been introduced to address these issues.