THE JCB ACADEMY
Sixth Form

Quantitative Reasoning

Level 3 one year course (AS-Level equivalent to ½ A-Level)

Examination Board: OCR

Aims of course:

To encourage candidates to:

- Use skills and techniques from GCSE
- Use mathematics to solve problems
- Represent situations mathematically and understand the relationship between problems in context and mathematical models
- Apply mathematics in other fields of study

Programme of study

Level	Module Name	Module Description
Year 1	Introduction to Quantitative Reasoning	Modelling, statistics, finance, working with exponentials, working with graphs, geometry and measures, risk, estimation, problem solving, communicating solutions, use of technology.
Year 1	Critical Mathematics	

Approaches to learning:

In Quantitative Reasoning the students study the course over one year. There is an emphasis on interpreting results and using technology. The topics are introduced in Introduction to Quantitative Reasoning and studied in more detail in Critical Mathematics.

There are three assessment and learning objectives:

- Use and apply standard techniques
- Solve problems in authentic contexts
- Reason, interpret and communicate mathematically

Who is this course aimed at?

This course is aimed at students who have achieved a grade 5 or above at GCSE but who do not want to study A Level Maths. The qualification should be useful in their everyday lives and will be of benefit to them whether they intend to continue in engineering or business.

Minimum entry requirement:

Five GCSEs at grade 9-5, including Mathematics and English.

Both modules will be terminally examined at the end of one year, with internal exams throughout the year.

Please note: The course is dependent on numbers registering their interest to study at A Level. The subject will only run if there are sufficient student numbers.