# CORE MATHS

**Subject**: Level 3 Mathematical Studies (Core Maths)

**Syllabus**: AQA Level 3 Mathematical Studies (1350)

**What will I learn?** Core Maths is a qualification designed for you to learn and apply real-world mathematical skills, and develop thinking and problem-solving. It includes maths that is relevant to other subjects including Psychology, Sociology, the sciences, Geography, Business Studies, Computer Science and Economics. The core content includes analysis of data, maths for personal finance, estimation and critical analysis of given data and models, including spreadsheets. There is a choice of optional modules on statistical techniques, critical path and risk analysis, and graphical techniques. Optional content will be determined on the basis of the needs and other subject choices of the cohort.

**How will I be assessed?** Assessment takes place at the end of 1 year. There are 2 papers, each of which lasts for 1 hour 30 minutes and is worth 60 marks.

Paper 1: Core content only: analysis if data, maths for personal finance, estimation. Includes the use of Preliminary Material available in advance.

Paper 2: Optional content (students take one paper only)

 either paper 2A assesses:

 critical analysis of given data and models including spreadsheets and tabular data

 statistical techniques

 or paper 2B assesses:

 critical analysis of given data and models including spreadsheets and tabular data

 critical path and risk analysis

 or paper 2C assesses:

 critical analysis of given data and models including spreadsheets and tabular data

 graphical techniques

**How will this prepare me for my next steps?** An understanding of mathematics is essential for all students, regardless of their future career. In most cases further education and career prospects will be dependent on achieving a good grasp of mathematics. Maths skills are included in the assessment of many other subjects, such as the sciences, psychology and computer science. Many universities and apprenticeship providers require a level of proficiency in mathematics.

**Contribution to UTC/Studio aims** Mathematics is a facilitating subject for the specialisms of the UTC and Studio. In addition to learning specific topics that overlap with the specialisms, studying mathematics also supports the development of problem solving and analytical skills, as well as fostering logical and systematic approaches to problems.

**Careers/job ideas** Studying maths helps you develop skills in logical thinking, problem-solving and decision making, which are valued by employers across many job sectors in the modern world of work. Young people with STEM qualifications are in demand, with 72% of all UK businesses relying on people with STEM skills and 58% of all new jobs created being related to STEM. Possible careers include: Engineer, surveyor, systems analyst, forensic scientist, actuary, accountant, operational researcher, chemist, software engineer, statistician, architect, mathematician, meteorologist.