

BTEC First Engineering

Overview

Blending hands-on manufacturing skills with theoretical study, the BTEC First Engineering is a vocationally designed course. Pupils are given an introduction to the engineering sector, with knowledge, skills, and understanding presented in a meaningful, work-related context.

What will I study?

Over the 2 years, pupils will study 3 units, covering topics such as investigating manufacturing processes, developments in materials and technologies, commercial production, and electronics.

Throughout the course, pupils will draw on knowledge from other subject areas, such as maths and science, and use critical thinking to problem solve.

Assessment

All three units of the course are assessed - one marked externally, in an on-screen examination, and the others through internally marked, and externally verified coursework.

Units	Content	Weight
Unit 1 - The Engineered World	<ul style="list-style-type: none">1 hour on-screen examination.Questions cover engineering processes, development of materials and technologies, and the contribution of engineering to sustainable futures.	25%
Unit 2 - Investigating an Engineering Product	<ul style="list-style-type: none">Non-examined assessment.Investigation of materials and commercial production processes used to manufacture a product.	25%
Unit 3 - Electronic Circuit Design and Construction	<ul style="list-style-type: none">Non-examined assessment.Design and build a range of electronic circuits to solve problems.	50%

