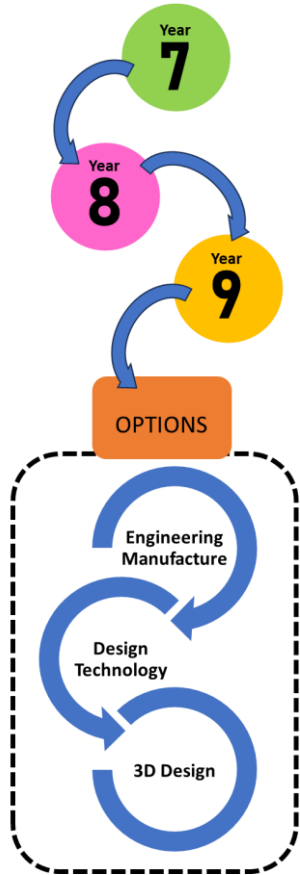


EXPOSITION:



FOCUS KNOWLEDGE

PROGRESS INDICATORS & APPLICATION OPPORTUNITY.

Good	We will learn what options are available to you within the Technology department
	Application: You will be able to explain the differences between the subjects on offer
Outstanding	We will learn what you will be studying if you choose Engineering and/or Design Technology
	Application: You will make a clear and informed choice about the options that you choose this year

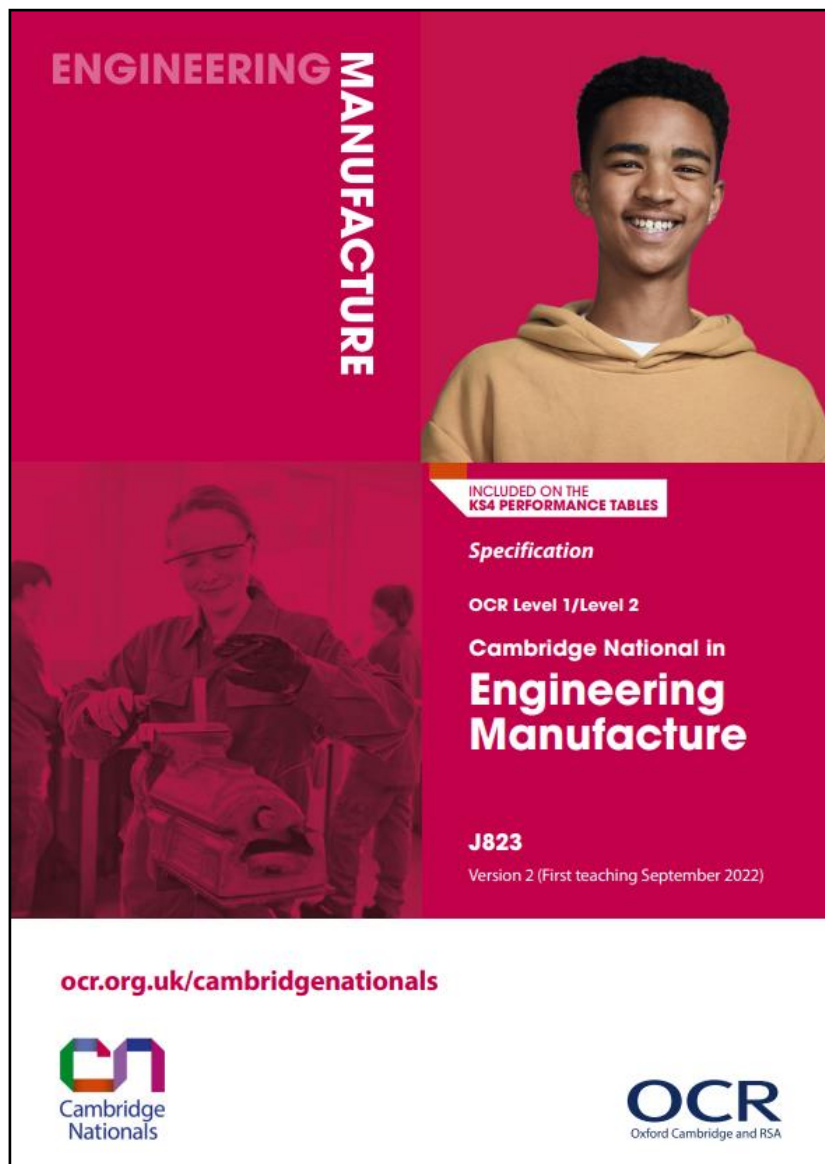
Prior Knowledge



Misconceptions



3:00



&





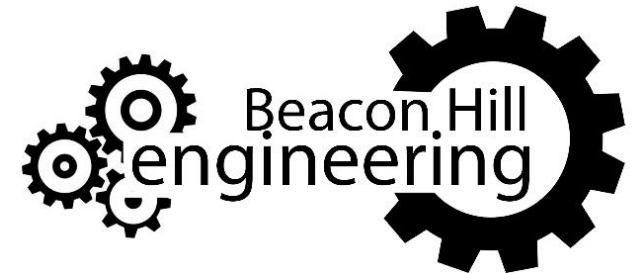
WORLD

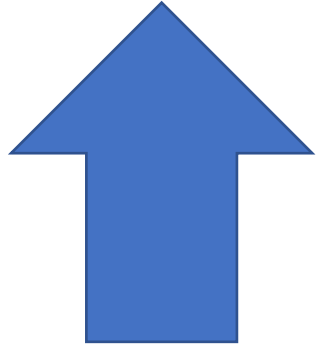
Engineering Manufacture (Level 1 and 2)

“An engineer is a person who designs and builds complex products, machines, systems, or structures. Engineers want to know how and why things work.”

Before we start To complete this

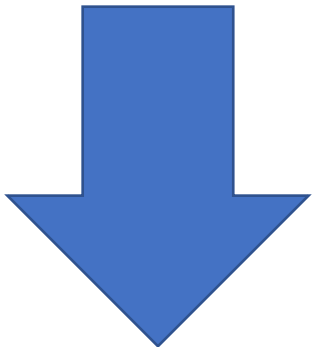
course, you **MUST** have a genuine interest in the subject and be willing to work **very** hard. It isn't just practical work! There are 2 pieces of CW to do and theory to study to give you all the skills and knowledge you need for a successful future





R014

Principles of engineering manufacture



R015

Manufacturing a one-off product

Yr10

Coursework

R016

Manufacturing in quantity

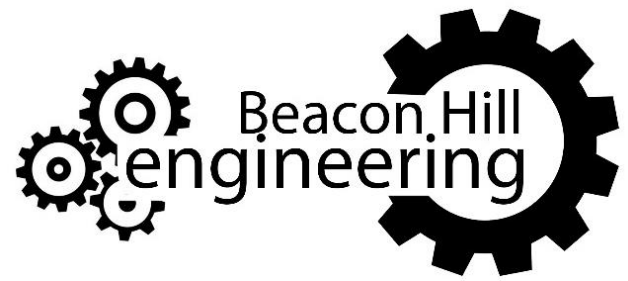
Yr11

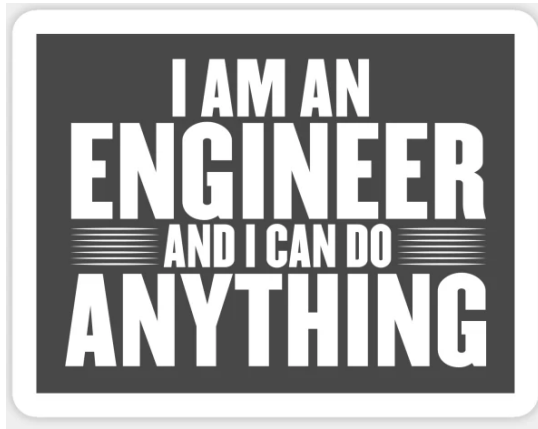
Coursework



The course consists of:

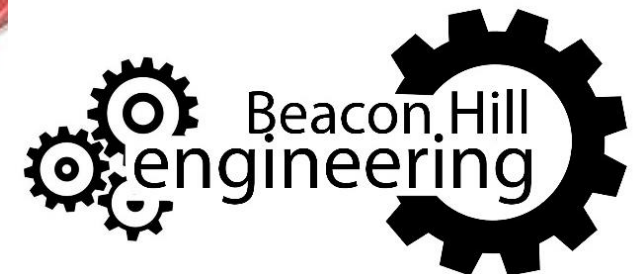
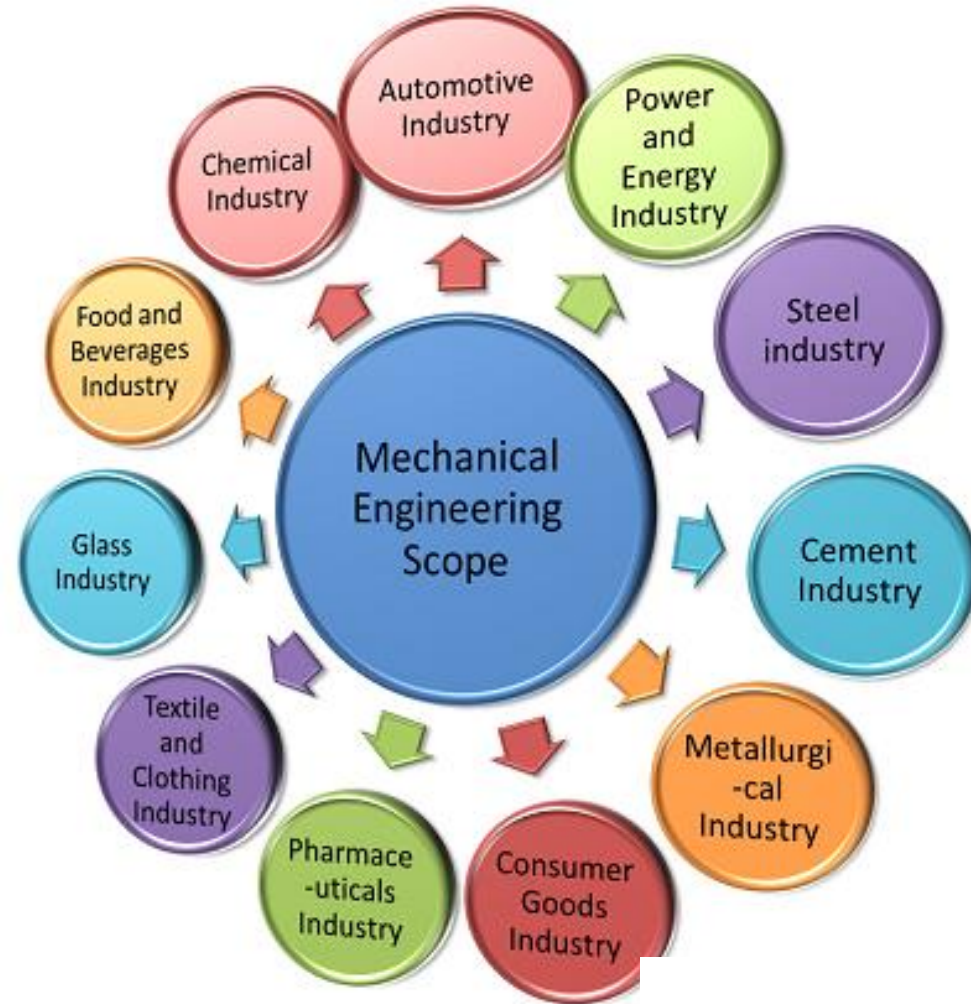
- **2** large pieces of CW – 1 in each year
- **1** exam at the end of Yr11





Jobs you could go into:

- Mechanical Engineer
- Electrical Engineer
- Production Engineer
- Project Engineer
- CAD Engineer
- CNC Operator
- Automotive Engineer / Mechanic





GCSE – OCR Design and Technology

In years 10 and 11:

50% Exam theory work

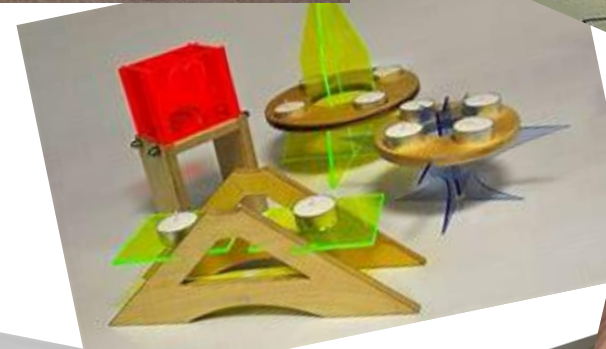
- Exploring which materials (e.g. plastics/woods/metals) are used to make products and why?
- How products made in the real world?
- Practical Skills: Shape Sorter, Electronics, CAD
- 2 Hour Exam

50% coursework – Based on an externally set task from OCR.

- Portfolio containing research, designing, modelling, testing and an evaluation. PLUS your practical piece of work (Wood, Metal, Plastic)



Warning this subject is **AMAZING!!!** BUT it is not just making – it is designing and researching too alongside the materials theory.



GCSE – OCR Design and Technology



Jobs you could go into:

Interior Design
Product Designer
Graphic Designer
Toy Designer
Architect
Jewellery designer
Manufacturing Engineer
Project Manager
Tradesperson
Web Designer
Illustrator
Stage/Set Designer



Before you go



- Think about what YOU want to do in the future – not what your mates are doing
- You will be doing this subject for 2 years, so you need to WANT to do it and be enthusiastic about the subject



For more information see our
Options Booklet and email any
questions to:
options@beaconhillacademy.org.uk