

Subject: Engineering BTEC

Exam Board:

Pearson Education - BTEC

Text Books/Resources:

BTEC Tech Award ENGINEERING – Student Book (Students have been provided with a book)

Websites:

- GCSE Bite size (General Revision)
- Technology Student. Com

Assessment details:

Component 1: Exploring Engineering Sectors and Design Applications.

Aim: get to know industry sectors and how they work together to solve real-life problems.

Assessment: internally assessed assignments. **Weighting:** 30% of total course.

Component 2 : Investigating an Engineering Product

Aim: explore the types of materials, components and processes used to make products, then reproduce and test a product. **Assessment:** Internally assessed assignments. **Weighting:** 30% of total course.

Component 3: Responding to an Engineering Brief.

Aim: provide solutions to real-life problems by creating their own-engineered product.

Assessment: Externally assessed task, where students create an engineered product based on a brief. **Weighting:** 40% of total course. (**Note:** Students have completed this; if they do not pass they are required to complete a resit in May).

Further Topic Details:

Component 1, students will:

- Explore the different sectors, products and interconnections within the industry
- Investigate what various engineering organisations and functions do, in addition to potential career paths.
- Discover the engineering design and manufacture processes.

Component 2, students will:

- Learn why engineers choose certain materials and components to make products. Investigate how products are made. Identify best practice when it comes to safety and risk management.
- Develop research, observation, recording, interpretation and measuring skills • Put what they've learned into practice by safely planning, reproducing and testing an engineered product.

Component 3, students will:

- Build on what they've learned in Components 1 and 2
- Identify the problem, develop a hypothesis and investigate possible solutions
- Create a prototype that meets the brief
- Record, analyse and evaluate data and outcomes, and reflect on how the product meets the brief.

How you can help:

Encourage attendance to Monday period 7 or Friday period 7

Discuss progress in lessons

Contact Details:

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