Bishop Heber High School

Subject	Year	Term
BTEC Tech Engineering Level 2	11	2

Topic

Component 2 & 3

Content (Intent)

Prior Learning – components 1, 2 & 3

Component 2 focuses on the reproduction of an engineered component following an engineering drawing. Component 3 is a response to an engineering brief and will take place under exam conditions. The students will be given brief and have to create a solution.

Future Learning (Topic) - Component 2 & 3

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
Component 2 **Learning Aim B:** Investigate a given engineered product using disassembly techniques. Students will learn to formally disassemble a product, explain why each component is part of the product and how it links to others and then wrote a specification for it.	Component 2 Learning Aim C will also be internally assessed with photographic evidence, teacher witness statements and student evaluations as the focused tasks develop.
Component 3: Responding to an Engineering Brief. All students will continue to investigate and create solutions to problems in response to specific given engineering brief. All to understand how to respond to an engineering brief All select skills and techniques in response to an engineering brief.	Component 3 - Task set and marked externally, completed under supervised conditions. The set task is made up of two parts and will be completed in two hours for Part 1 and one and a half hours for Part 2. Both parts of the set task are completed during a one-week period timetabled by Pearson. (60 marks.)

How can parents help at home?

You can support your child by discussing the coursework with them, allowing them to develop their portfolios at home and encouraging the students to have an aspirational attitude to their work.

Helpful further reading/discussion (including Reading and Vocabulary Lists)

Reading	Vocabulary Lists
BTEC Tech Award Engineering Student Guide Technologystudent.com CNC Work and Health and Safety Wikipedia – Design/Engineering Design Processes.	Engineering Brief, Planning, testing, solution orientated engineering CAD/CAM, AutoCad, CNC and plotters. Permanent/semi-permanent, sizes/dimensions, surface roughness, values, fixing methods.