



Subject	Year	Term
BTEC Tech Engineering Level 2	11	1
Topic		
Component 2 & 3		
Content (Intent)		
Prior Learning – Component 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 A: Understand materials, components and processes for a given engineered product through primary investigation into the manufacture and assembly of the significant component parts.	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 investigate and create solutions to problems in response to specific given engineering brief.	Component 3 will be formally assessed in February of Year 11 with an opportunity to re-sit the exam in the summer. Component 3 will also be included on the November Mock exams.	
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 BTEC Tech Award Engineering Student Guide Financial Times Creativity Inc. — Ed Catmull Technologystudent.com materials and processes Wikipedia – Engineering Components	Vocabulary Lists Design Brief, Components, standard components, specifications, task analysis, iterative, intuitive and systematic design. Inspections, job sheets, log books, templates, blue prints, technical drawing, risk assessments, developmental design. Inspections, quality control and quality assurance. Observation records and witness statements. Prototype, modelling, scaling, interpreting data. Analysis, synthesis, evaluation.	