Bishop Heber High School

Subject	Year	Term
Design and Technology	7	2

Topic

Engineering 1 and Understanding through Theory 1

Content (Intent)

Prior Learning (Topic) Graphics and D&T1

Students will continue to study Design and Technology primarily in a workshop setting but will also move to classroom-based theory lessons. Engineering 1 introduces students to what engineering is and how we manufacture products. Understanding through theory address areas such as different materials categories, their impact on the environment and basic nutritional understanding.

Future Learning (Topic) Food and Challenges

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
The students learn what it is to be an engineer and how we manufacture bespoke product, and also in batch and mass production. The aims are to: • To further build on workshop skills • Develop teamwork skills • Learn how to plan for manufacturing • Know how to evaluate outcomes successfully	**Assessment** Students will be assessed on Evaluation Skills using the Success Sheets. Students will also complete an end of unit assessment to assess their subject knowledge
The students gain a broad range of knowledge to help support them in the workshop and kitchen. The aims are to: • Learn about the materials family tree and know how to categorise materials • Know how to select materials based on their properties • Understand the impact that materials have on the world • Be able to identify the different areas of the Eatwell guide.	**Assessment** Students will also complete an end of unit assessment to assess their subject knowledge

How can parents help at home?

Students will be given homework every week and must complete this work in their exercise books.
Encourage students to watch documentaries such as “In the Factory” and “War on Plastics”

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

Reading

www.technologystudent.com
https://www.bbc.co.uk/bitesize
No One Is Too Small to Make a Difference: Greta Thunberg
ISBN - 0141991747
www.foodafcatoflife.org.uk
www.nhs.uk/live-well/eat-well/food-guidelines-and-food-labels/the-eatwell-guide/

Vocabulary Lists

Scales of production Quality control
Batch production
Jigs
One off
Templates
Mass production
Engineering
Materials
Wood, Metal, Plastic
Life cycle
Carbohydrate
Protein
Fats
Dairy
Seasonal Food
Standard components