Design Technology Year 9

Prior Learning
You have learned about electronics and developing knowledge of how to construct a circuit. You had advanced your skills in design, combining your woodwork skills for example. cutting and finishing woodwork with electronics.

We will be learning about...
During this rotation, you will be designing your a product using sustainable sources. You will develop knowledge of already existing products and use your skills in design, cutting, shaping and finishing to create a sustainable product. They will develop hand tool skills with the ability to continuously test their accuracy through quality control checks. This project will allow pupils to create an upcycled product and develop problem solving skills when assembling and testing the product.

Lesson	Key Learning	Homework
Lesson 1&2	• Project introduction • Understanding the market • Lifecycle analysis of a pallet	Product Research
Lesson 3&4	• Lifecycle analysis of a pallet • Investigating the design context • Writing a design brief - Specification	Sustainability Research
Lesson 5&6	• Drawing techniques • Final Dewign • ASSESMENT POINT 1 - Investigate & Design	Retrieval- Prior knowledge check quiz
Lesson 7&8	• Measuring and marking out material • Manufacture of product	Literacy- Spelling test
Lesson 9&10	• Manufacture of product	Flip Learning- Learning about designers
Lesson 11&12	Making product – Cutting individual pieces Finish product - Evaluation • ASSESMENT POINT 2 - Make & Evaluate	Literacy- Spellings (key words)
Lesson 13&14	• Modelling challenge	End of project.

Key Vocabulary							
Sustainability	Natural wood	Drill bit	Ergonomics	Standard components	Manufacturing	Quality Control	Assembly

Future Learning	
GCSE Product Design- designing your own product against a brief.	Careers: Product Designer, Architect, Software Engineer, Civil Engineer, Website Designer, Interior Designer, Games Designer and many more...

Homework guidance
Students are given homework at regular intervals at least every two weeks throughout the project. The homework tasks are shared on synergy for both parents and students to access.

How can you help?
Parents can support their child in DT by talking to them about the project they are undergoing and encouraging them to do their best. If parents take an interest in their practical project work this helps to inspire and motivate students to excel in the subject. It is also helpful if students are provided with a quiet place to do their homework tasks. Many homework tasks can be researched by using google but there are some good sites which are free to access such as: 'Technology student.com' and 'Mr D & T'.