

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		<ul style="list-style-type: none">My Perfect Page – plastics pollution extended writingProject introductionCircular and linear economy				Design Contexts - Initial S... Design Contexts - Further S... Primary Research	
Lesson 3&4		<ul style="list-style-type: none">Lifecycle analysisUser needs and problem solving					
Lesson 5&6		<ul style="list-style-type: none">Investigating the design contextDrawing techniques, Initial design ideasASSESSMENT POINT 1 - Investigate & Design				Secondary Research Data & Information Writing a Design Brief - Ob... Writing a Design Brief - Fu...	
Lesson 7&8		<ul style="list-style-type: none">New page specification and designMaths for design technologyProducing a time plan					
Lesson 9&10		<ul style="list-style-type: none">Making product – Measuring and marking out materialEvaluation against specification				Manufacturing: Materials & ... Observing the User Market Research Studying Different Cultures	
Lesson 11&12		<ul style="list-style-type: none">Making product – Cutting individual piecesASSESSMENT POINT 2 - Make & Evaluate against specification					
Lesson 13&14		<ul style="list-style-type: none">Awe and Wonder – Electronics and systemsGoogle Garden Gnome.					
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'.