

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 to create a sustainable product. They will develop digital CAD 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 working with accuracy and precision.								
Lesson		Key Learning				Homework		
Lesson 1&2		My Perfect Page – plastics pollution extended writing Project introduction Circular and linear economy				Design Contexts - Initial S... Design Contexts - Further S... Primary Research		
Lesson 3&4		Lifecycle analysis User needs and problem solving Specification						
Lesson 5&6		Investigating the design context Drawing techniques Initial design ideas New page give spec and design accordingly				Secondary Research Data & Information Writing a Design Brief - Ob... Writing a Design Brief - Fu...		
Lesson 7&8		Maths for design technology Producing a time plan ASSESSMENT POINT 1 - Investigate & Design						
Lesson 9&10		History of design and evolution Apple Case Studies CAD – 2D design vectorising				Manufacturing: Materials & ... Observing the User Market Research Studying Different Cultures		
Lesson 11&12		CAD – MM keyrings and stationery Engineered drawing and CAD/CAM exports as a tractor						
Lesson 13&14		Awe and Wonder Architecture – using units, design skills and software to become an interior designer						
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'.