Foxford Learning Plan

YEAR: 11

Topic: Controlled Assessment

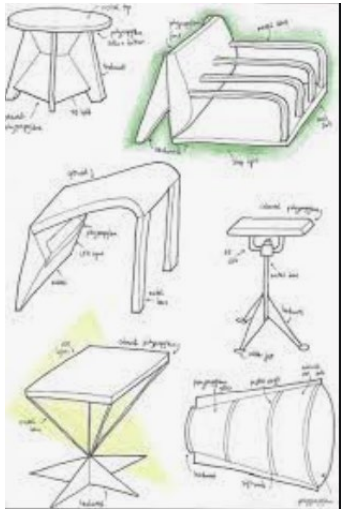
Spring Term

Key Vocabulary

Development	The improvement of an initial idea, looking at each part of the idea and how it be modified and improved.
Quality Control	Checks to make sure a product is to the required standard.
Computer Aided Design (CAD)	Use of computer software to design and develop products.
Computer Aided Manufacture (CAM)	Use of machines linked to computers that manufacture products designed using CAD. Very limited human input is required.
Prototyping	Testing an idea through modelling. Materials such as card and modelling foam can be used.
Specification	A list of criteria that a product should do, be or have.
Working Drawing	A set of 2D drawings that show the dimensions and hidden details of the product. These drawings are used to help with product manufacture.
Product Analysis	The process of examining a product to identify the strengths and weaknesses of a product, and why the product has been designed in that way.
Evaluation	Critical feedback of a product, ideas or prototype to see if the specification has been met. Improvements that need to be made should be identified.

Key Skills

Over the course of the topic, I will be able to: -
Make informed decisions about how to develop a chosen design.
Write a detailed specification and analyse design ideas against it.
Use modelling materials to prototype and test parts of a design.
Use a range of appropriate tools, equipment and processes to manufacture a high-quality product.
Test and evaluate the finished product .



I will understand:

1. The importance of prototyping products or parts of products.
2. Why and how a specification is used by designers and manufacturers.
3. How to use a range of tools, equipment and processes accurately to manufacture a high-quality product.
4. That analysing existing products can help me to increase the quality of my outcome.
5. Why and how Quality Control systems are used during the manufacture of products.