Foxford Learning Plan

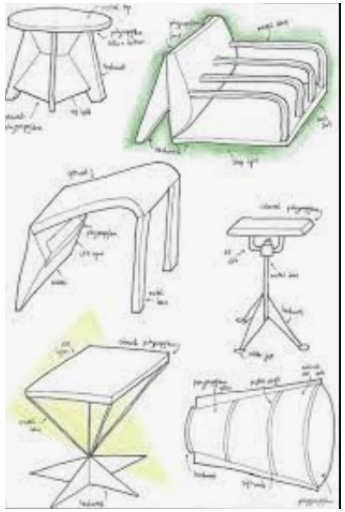
YEAR: 11
Topic: Controlled Assessment
Autumn Term

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 my chosen design
Write a detailed specification and analyse my design ideas against it
Use modelling materials to prototype and test parts of my design
Use a range of appropriate tools, equipment and processes to manufacture a high quality product
Test and evaluate my 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