Foxford Learning Plan

YEAR: 11 PD

Topic: Exam Preparation

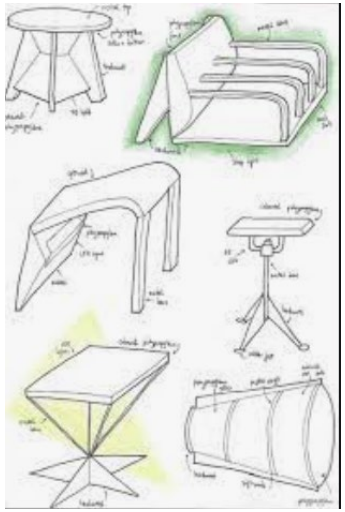
Summer Term

Key Vocabulary

Environmental Issues	Issues such as sustainability that affect how a product is designed and made
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
Chemical properties	The composition of materials (eg deciduous trees)
Physical properties	The properties that make a material suitable for a purpose (eg malleable)
Scale of Production	The quantities in which products are made (eg batch production)
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
Social, Moral and Ethical Factors	Wider issues relating to how products are designed and manufactured

Key Skills

Over the course of the topic, I will be able to:
Identify the 6Rs in relation to sustainable design
Identify the different scales of production
Discuss the different chemical and physical properties of a range of materials
Accurately make links between CAD and CAM
Refer to the social, moral and ethical factors that affect the design and manufacture of products



I will understand:

1. How to refer to the social, moral and ethical factors in an exam question
2. How materials are selected based on their physical and chemical properties
3. How to analyse a product in an exam question
4. How different scales of production affect the final outcome/product
5. Why and how Quality Control systems are used during the manufacture of products