

KS5 CURRICULUM: Technology – Product Design – Graphics (YEAR 13)

Overview

This subject will allow you to gain an understanding of the processes of design, product development and production. You will learn about and practice the skills involved in the production of design media (technical drawing, model making and CAD such as Photoshop) along product manufacture and development. You will also develop an understanding of the following topics: materials and components (including smart and modern materials), new and emerging technologies, processes and manufacture, sustainability in industry and market influences.

	Focus / Topic	Knowledge & Skills	Assessment
Autumn 1	Theory: Materials NEA: Initial ideas	<ul style="list-style-type: none"> • Specification • Initial Ideas • Review of initial ideas 	Exam question practice NEA
Autumn 2	Theory: Technological Advances and Wider Issues, history of design NEA: Design development	<ul style="list-style-type: none"> • Development of design ideas into a chosen design • Communication of design ideas • Review of chosen design • Design Proposal 	Exam question practice NEA
Spring 1	Theory: Polymers and Packaging, metals and composite materials NEA: Completion of design, manufacturing	<ul style="list-style-type: none"> • Plan of making • Manufacturing 	Exam question practice NEA PPE Exam: (TBC)
Spring 2	Theory: Technical Understanding and Manufacturing Processes NEA: Manufacturing and Evaluation	<ul style="list-style-type: none"> • Manufacture • Selection of materials • Skills and processes • Quality control and quality assurance • Testing and Evaluation 	Exam question practice NEA Presentation date: 3 rd April NEA Hand in date: 17 th April
Summer 1	Theory: Health and Safety and Manufacturing Processes, Polymers, Metals and Woods	As needed	Exam date: TBC (June)
Summer 2	Study leave	Study leave	Study leave

Further Information

- Course code is OCR Design Technology: Product Design H406
- Students must create their own design contexts for the NEA