

# AQA GCSE D&T PRODUCT DESIGN

## Year 10 – Autumn Term

**Theory Content.** These relates directly to the knowledge required in both the examination and to help students make informed judgement when completing their Controlled Assessment next summer.

**Materials** – their properties, sourcing, application and sustainability. This includes carbon Fibre Composites, metals, plastics, woods, smart materials and modern materials.

**Products in Society, Marketing and Social Issues.** Studies cover market push and pull, built in obsolescence, cooperatives, crowdfunding, virtual marketing, entrepreneurs and technology push.

**Product Analysis using ACCESS FM Evaluation System.** This system allows students to evaluate existing designs, their own as they develop and to then complete end evaluations of their own and others ideas in a structured manner. The heads for analysis are: aesthetics, consumer, client, ergonomics, sustainability, safety, functions and manufacture.

**Power Creation and Sustainability.** We will focus on fossil fuels systems and those that are sustainable. This element of the course is also linked to how product eco credentials are impacted.

### **Design Projects.**

#### **Project 1.**

Students will undertaking an induction project based on the development of spatula designs for use in a domestic context. The skills of research, analysis, design, presentation, planning, making and evaluating develop skills for use in later projects and coursework.

#### **Project 2.**

Flat Pack Brief. Students will be given a set quantity of materials to design and manufacture a flat packed product for sale in a large well known Scandinavian furniture store. Students will design, model, sketch and manufacture a final working product. This Year the focus will be on the creation of bug hotels or the mould to make them.

**Students will be provided with revision guides and exam practice booklets for use at college and at home. It is the students responsibility to keep them safe and to bring them in to college at the right times.**

### **Recommended online resources:**

<https://www.technologystudent.com/> Online resource providing resources, example test papers, animations, videos and teaching. Specifically aimed at the AQA syllabus.

<https://www.bbc.co.uk/bitesize/subjects/zvg4d2p> Learning and revision website that links to all D&T exam boards.