

AQA GCSE D&T PRODUCT DESIGN

Year 11 – 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 currently being completed.

Mechanisms. This element will look at systems such as gears, cams, linkages, levers and other devices that can be applied to design solutions.

Standard Components and Stock Forms. Designers often use standard stock forms to reduce costs and leading in times. Students will learn about a variety of these items, their application and impact on manufacture, designs and costs.

Looking at the work of Designers. Students have already looked at the work of Harry beck and the London Underground map. This term we will focus on the designs and influence of Alec Issigonis and Philippe Stark.

Printing, paper, cards, die cutting and embossing. These processes and the types of products they create will be studied and cross referenced with some techniques of metal press forming techniques.

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

Regular Timed Tests. These test will occur fortnightly in class or remotely at home. Some tests will be open book and others formal exam style conditions.

Controlled Assessment Projects.

Student will be working on their final Controlled Assessment Project which is worth 50% of their final grade. This year OFQUAL have stated that there is no need to make a final product. However the project is still a major piece of work and has to be completed in and out of college time. Students will be given individual action plans regularly as their projects are unique to them. The sections to be completed this term are:

- **Research and Analysis** (10marks)
- **Design Specification** (10 marks)
- **Design Creation** (20marks)
- **Development of Design Solutions** (20marks)
- **Evaluation and Testing Models** (20marks)

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<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.