



A-level Design and Technology: Product Design

Why should you follow this course?

- You have successfully completed a GCSE course and wish to gain a broad view of Design and Technology.
- You wish to gain a greater understanding of the development of design and technology and its impact on all of our lives.
- You have studied any of the following with a degree of success: Resistant Materials, Product Design.
- You are determined to work hard.
- You wish to design and make products and understand the theory behind the manufacture and evolution of design.
- You enjoy creatively solving problems.
- You can work to strict deadlines.
- You are self-motivated and enjoy working independently.

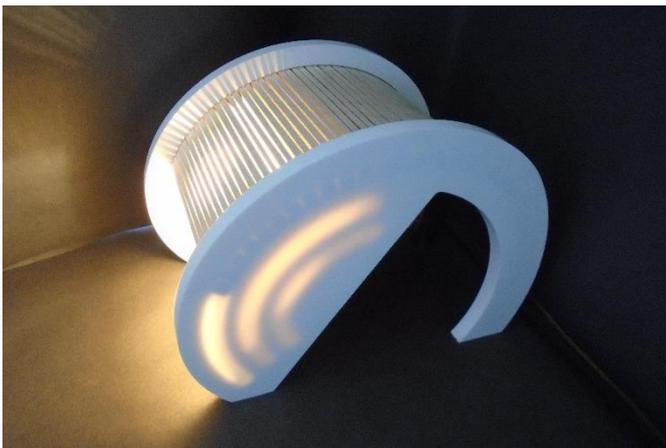
What will you cover during the course?

During the course you will:

- Design and make products to solve problems.
- Investigate materials and associated manufacturing processes.
- Develop knowledge of CAD/CAM and integrate into your design.
- Gain a greater appreciation of the relationship between design, materials, manufacture and marketing, including industrial applications.
- Be able to work with a range of materials: wood, metal, plastics and graphic media (you may specialise in one material or combine them to design, model and manufacture your products).
- Develop an appreciation of designers.

What teaching and learning methods will be used?

Traditional teacher led activities, individual research, product analysis exercises, small group work and presentations as well as design and make tasks.



Examination Board: AQA

Qualification: A Level

COURSE CONTENT & ASSESSMENT

In Year 12 you will be guided through a series of design and make activities where you will respond to a set context. Alongside theory lessons with essay style questions to complete, Year 12 will prepare you for Year 13. There is no qualification to be gained from Year 12.

How will the course be assessed?

- 2 exams
- A single design and make task – the problem and brief set by you.

In June of Year 12 the contexts are decided upon by the students and staff for the major design and make projects. Students are expected to respond to this independently by working through the design process to deliver a final product which is fit for purpose. This is worth 50%

2 papers are completed at the end of the year. Worth 50%. A good knowledge of maths is required as this will be tested in the final exam and worth up to 15%.

What can you do when you have your qualification?

University/employment.

Designing is a creative activity which involves identifying and resolving problems, creating realistic responses and then producing and testing solutions.

Product Design could take you into a number of exciting career paths - product design, design for industry, transport design, furniture design, jewellery, architecture, teaching, manufacturing, advertising and engineering and much more.

Each area obviously requires a different type of knowledge but all involve similar design activities.

To follow Engineering please look to combine Product Design with Science and Maths.

For further information or advice please contact

Mrs Dixon

ydixon@williamhoward.cumbria.sch.uk