Design Technology

A Level Product Design

Taster session 2025



# **Taster Session**



# What am I?

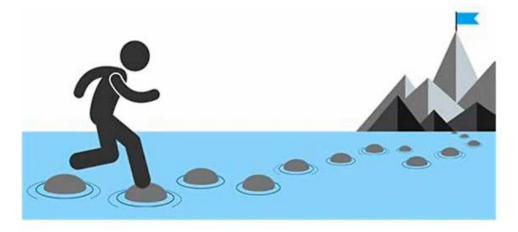




"Good design is like a refrigerator—when it works, no one notices, but when it doesn't, it sure stinks." —Irene Au

### Where Can 'A' Level Design Technology Take You?

It's your choice - select projects and design media to reflect where you want to go



### Stepping stone to:

- Product Design
- Production / Industrial Engineering
- Fashion Design
- Infrastructure, Civil Engineering & Construction
- Architecture
- Electrical Engineering
- Mechanical Engineering
- Landscape Design

- Interior Design
- Advertising and Marketing
- Research Engineering
- Medical Appliances
- Systems Design
- Packaging Design
- Publishing, Film and Media
- Teaching
- Armed Forces
- Aerospace
- Automotive Design and Engineering
- Robotics

and so much more ..... !!!

https://www.raeng.org.uk/

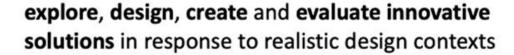
https://www.stem.org.uk/

https://www.vexrobotics.com/

## Course Introduction

You will:

be encouraged to develop intellectual curiosity about the design and manufacture of products.



be encouraged to produce Imaginative practical work

develop **knowledge** and **understanding** of the core technical, designing and making principles for product design



- What difficulties do people live with?
- Can we improve their lives?
- What do they need or want?
- Can things be redesigned to use less resources and energy?
- Are we able to develop a sustainable way of living?

## **Assessment**

- 50% exam with two papers (maths and science contribute 15%)
- 50% non-exam assessment (NEA)
- The final NEA consists of a single design and make activity.
- Students are free to choose their design contexts and use media, materials and techniques that reflect what they would like to do after 'A' Levels.

#### Paper 1

#### What's assessed

Technical principles

#### How it's assessed

- Written exam: 2 hours and 30 minutes
- 120 marks
- 30% of A-level

#### Questions

Mixture of short answer and extended response.

#### Paper 2

#### What's assessed

Designing and making principles

#### How it's assessed

- · Written exam: 1 hour and 30 minutes
- 80 marks
- 20% of A-level

#### Non-exam assessment (NEA)

#### What's assessed

Practical application of technical principles, designing and making principles.

#### How it's assessed

- · Substantial design and make project
- 100 marks
- 50% of A-level

#### **Evidence**

Written or digital design portfolio and photographic evidence of final prototype.

#### Questions

Mixture of short answer and extended response questions.

#### Section A:

- Product Analysis: 30 marks
- Up to 6 short answer questions based on visual stimulus of product(s).

#### Section B:

- · Commercial manufacture: 50 marks
- Mixture of short and extended response questions

### **TASTER DAY TASK:**

# Designing a mould for a metal jewellery piece and making the jewellery







# Design Task https://www.youtube.com/watch?v=uO-44AbXF70



- 1. Design a simple shape that will be cut using the laser cutter. Use the Focus 2D software.
  - https://www.youtube.com/watch?v=4ghTmUQrNHo
- 1. Share the design with Mr Netsereab and we will then cut pieces to be laser cut. You will assist with this.
- 1. Use the cut outs to create the jewellery piece using pewter casting

