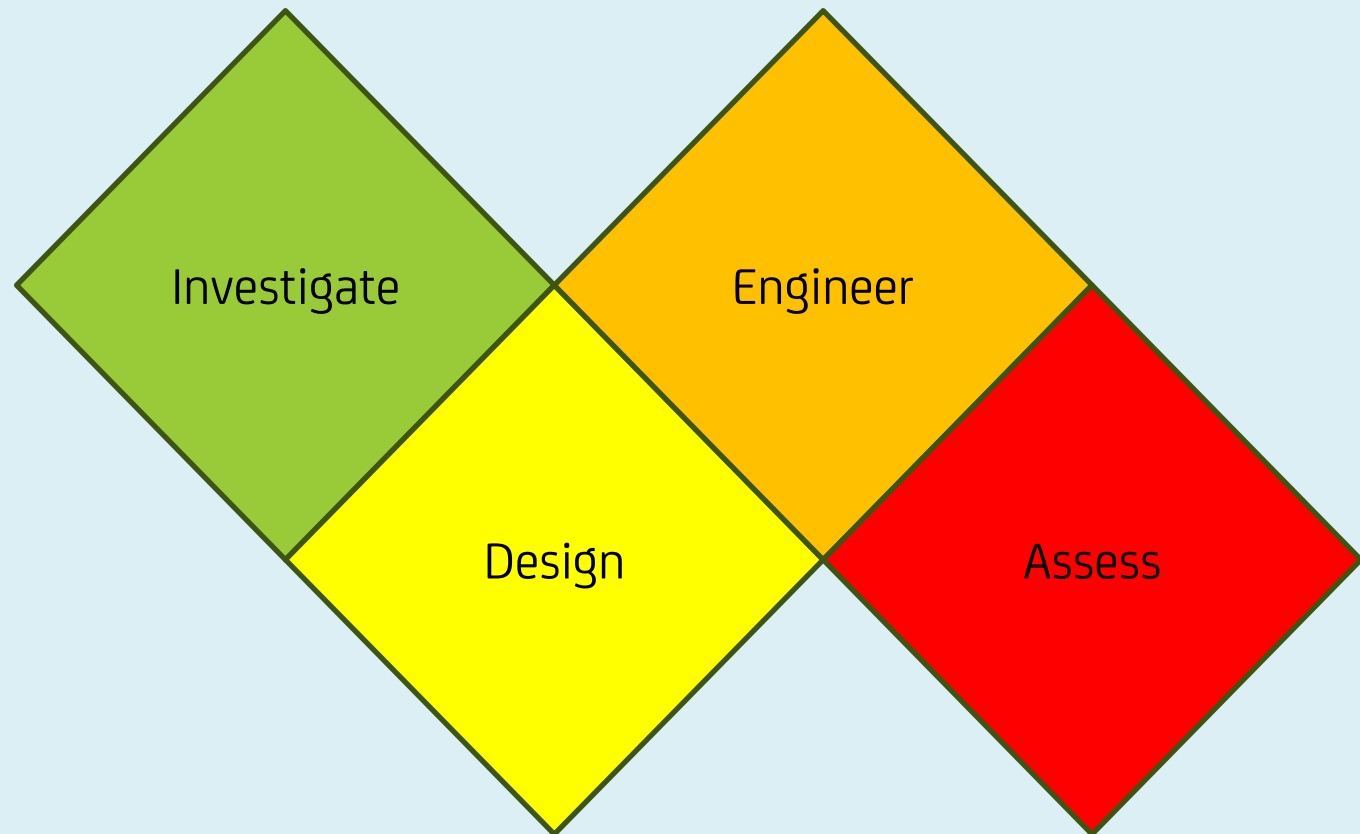


Engineering Design

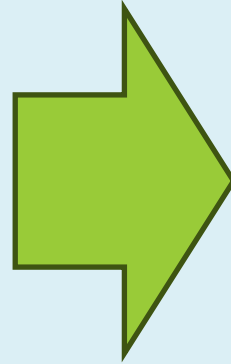
OCR Cambridge Level 1 and 2
GCSE Equivalent



Engineering Design – Build the Future

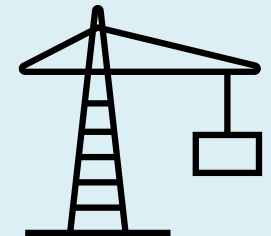
What is OCR Cambridge National Engineering Design?

- A practical, hands-on qualification focused on designing and making real products
- Combines creativity, engineering, problem solving



Ideal for students who enjoy:

- Designing ideas
- Making physical products
- Using CAD and workshop tools



What will you learn?

-  **Understand Engineering Design**

- How products are designed for real users
- Materials, sustainability, and manufacturing processes

-  **Analyse & Investigate Products**

- Study existing products (ACCESS FM)
- Take products apart to understand how they work

-  **Design Using CAD**

- Create accurate **3D digital models**
- Learn industry-standard design thinking

-  **Make Prototypes**

- Use workshop tools and equipment safely
- Manufacture working models from materials like timber, plastics, or board

-  **Test & Evaluate**

- Compare designs against a specification
- Improve ideas based on testing and feedback



Assessment Overview

How will you be assessed?

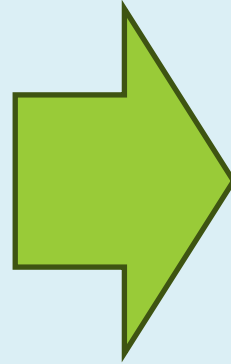
- 60% Coursework – Non-Examined Assessment (NEA)
 - Design, CAD, Making, Evaluations
- Coursework completed over 10-12 hours per project
 - Strong focus on practical skills and independent thinking and doing.
- 40% Exam
 - Engineering design knowledge
 - Materials, processes, sustainability



Skills for the future

Students develop:

- Creative thinking
- Practical workshop skills
- CAD and digital design
- Solution finding and independence



Progression Routes:

- A-Level Design & Technology / Engineering
- Apprenticeships

Careers in:

- Engineering
- Product Design
- Architecture
- Manufacturing

