

# Design & Manufacture Higher

## What will I study?

Pupils will study and further develop/develop knowledge and skills in two topics.

**Design (Higher)** This topic covers the processes of product design from brief to resolved design proposals and specification. It helps learners develop skills in initiating, developing, articulating and communicating design proposals for products. It allows them to gain skills and experience in evaluating design proposals in order to refine, improve and resolve them. It allows them to develop an appreciation of design concepts and the various factors that influence the design and manufacture of products.

**Materials and Manufacturing (Higher)** This topic covers the processes of product design from design proposals to prototype. It allows learners to gain skills in planning and making models and prototypes. It helps learners to 'close the design loop' by manufacturing a set of design ideas. It allows them to develop an appreciation of manufacturing practicalities. It allows them to strengthen an appreciation of the various factors that influence the design and manufacture of products. It allows learners to consider the manufacturing techniques and processes that would apply to a design proposal in an industrial/commercial context. In both Units, learners will gain knowledge and understanding of design and manufacturing technologies and how these impact

## What skills will I develop?

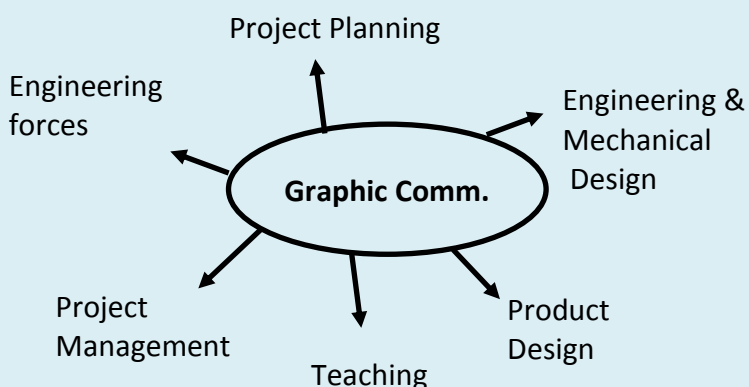
- Idea generation techniques
- skills in design and in refining design proposals
- Practical skills in the planning and development of models and prototypes
- Skills in evaluation and research
- Knowledge and understanding of manufacturing processes and materials
- The ability to read drawings and diagrams
- An understanding of the impact of design and manufacturing technologies on our environment and society
- Communication skills
- Problem solving skills

## How will I be assessed?

### At Higher level

Candidates complete a Design assignment in school which is marked externally by SQA. Candidates also sit an exam which is externally marked. Marks are added together for a final grade.

## Possible Careers



## What Next?

### Higher D&M to:

- Higher Graphic Communication
- Practical Woodwork or Metalwork at National level.

There is no advanced higher within the department at the moment but this could be studied elsewhere.

- Various college courses for specific career paths.

## Need more info? -

[Highers in a Nutshell](#)

[My World of Work](#)