

## Subject Guidance for

### Design & Manufacture (Higher)

#### Key Skills and Techniques to practice

##### Assignment prep

- Practice sketching and **don't worry** about what your sketches look like, even rough sketches get marks – **THEY DON'T HAVE TO BE PERFECT**. You must be able to confidently communicate your ideas in a visual format
- Produce a wide range of ideas, as many as you can, but... make sure that they link to the brief and specification
- Annotate don't label. Three steps to annotation. 1. Describe (using technical adjectives) what the image or graphic shows, 2. Explain why the graphic is on the page and 3. Talk about the decisions that you have made.

##### Exam prep

- Know your processes... **know your processes... know your processes**. **DON'T PRETEND TO LEARN THEM**
- Remember to use FEEDCAMMP to help ORGANISE the Design Factors (Function, Environment, Ergonomics, Durability, Safety, Cost, Aesthetics, Material, Manufacturing and Performance).

#### Key Points to remember

Build upon your knowledge of materials and manufacturing processes when considering how products are manufactured. **Tip-** look on the Ikea website to see how products are assembled and use this to help develop your products.

Learn and remember the different types of plastics and metals – you **will** be asked about these in the exam.

##### **National 5 Course award:** 157 marks available in total \* 2021-22

- 77 marks for Design Assignment (49% of the final grade)
- 80 marks For Question Paper (51% of the final grade)

**Design Assignment:** this will start after your prelim exams, the big marks are earned by:

Generating a wide range of ideas (one good idea won't do this) and exploring and refining ideas. 36 marks (23% of your final grade... two grade boundaries)

**Question Paper:** Tuesday 10<sup>th</sup> of May 2022 @ 09:00 – 11.15am 1 minute 30 secondsish per mark

- Remember to prepare for the 8 marker!!! The last question in the Higher D&M paper is always worth 8 marks and can be about any part of the course. This question is worth 6.4% of the final grade.
- Learn the **Industrial processes** for metal and plastic. You will have covered these in N5 (Injection moulding...), but specifically focus upon the identifying features of products (split lines, ejector pin marks, etc).