

Design & Manufacture

N4/5 & HIGHER



Learning is split into 2 sections or units.

- Design
 - Use a design process from brief to resolved design proposals, including developing a specification.
 - Develop skills in initiating, developing, articulating and communicating design proposals.
 - Develop an appreciation of the design/make/test process and the importance of evaluating and resolving design proposals on an on-going basis.
 - It also allows you to develop an appreciation of design concepts and the various factors that influence the design of products.
- Materials & Manufacture
 - This Unit covers the product design process from design proposals to prototype or product.
 - Develop practical model and prototyping skills that are invaluable in the design/make/test process.
 - Gain an appreciation of the properties and uses of materials as well as a range of manufacturing processes and techniques used in commercial manufacture.
 - Additionally it allows you to evaluate, refine and resolve design and manufacturing solutions.

Course Outline



- Homework tasks will be issued weekly for design theory lessons, normally including a sketching/design/visual research task.
- Details shared on SMHW and Class TEAM though students are encouraged to photograph task from board and set own reminders.
- Completed in jotter or One-Note and submitted for feedback.
- Additional homework may be given throughout year to complete design tasks set in class.

Homework



At Higher level, the final Assessment is also split into 2 sections.

- Design Assignment (Externally marked)
- Question Paper (Externally marked)
- Marked out of 77
 - *(reduced from 90 marks for session 2021-22)*
- Marked out of 80
 - *(No Change for session 2021-22)*
- 11 page Design Assignment from a given brief.
- Prelim/Formal Assessment opportunity early 2022
 - *(provides estimate of potential grade)*
- Submitted before Easter Break.
- Final exam in May 2022

Course Assessment: HIGHER



At N5 Level, evidence of attainment will be gathered across 3 sections. In addition to this, evidence will be gathered through a number of coursework projects set throughout the year.

- Design Assignment
 - Externally marked out of 50
 - *(reduced from 55 marks for session 2021-22)*
- 7 page Design Assignment from a given brief.
- Submitted before Easter Break.
- Practical Assignment
 - Externally marked out of 45
- Fully crafted artefact from work on design assignment.
- Submitted before Easter Break.
- Question Paper
 - Externally marked out of 80
- Prelim/Formal Assessment opportunity early 2022
 - *(provides estimate of potential grade)*
- Final exam in May 2022

Course Assessment: N5



- Additional support materials can be found in the following locations:
- All students have a sheet outlining the knowledge required at each level

- CDT shared area
- SQA subject website
- Various CDT websites
 - technologystudent.com
 - jambledandt.com
 - ergonomics4schools.com

- Leckie & Leckie website using QR codes in book

- Additional course notes (Beath High School/DET studio)

- NPF nutshell revision page

- BBC bitesize website

- Class On-Note resource



Support materials



- The CDT Department has open door policy, with all staff willing to support.
- Specific times for support are available on request with staff...
- Remember 'Free periods' are really study periods and staff may also be able to help then.

Additional Teacher Support

