

CfE Higher Design and Manufacture

During S4 – S5 pupils worked through two Design and Manufacture units at National 4 and 5 level. The successful achievement of National 5 level in S4 or S5 allows progression to CfE Higher Design and Manufacture in S5/6 as prior knowledge from Nat 5 is needed for the CfE Higher units.

CfE Higher Design and Manufacture covers two units:

- Design
- Materials and Manufacture

Design

This Unit 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 Manufacture

This Unit 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 on our environment and society.

The Course Assessment

This takes the form of an assignment and question paper to assess the application of skills and knowledge which learners have developed from the previous two units. The question paper introduces breadth to the assessment. It requires depth of understanding and application of knowledge from the Units. **We will not put a pupil forward for the final exam without being confident we have the evidence required to support an award at Higher.**

The assignment

- Class time will be given towards the assignment within the year and this will be completed prior to the deadline before Easter holidays. Pupils will have this filed for uplift.

The prelim

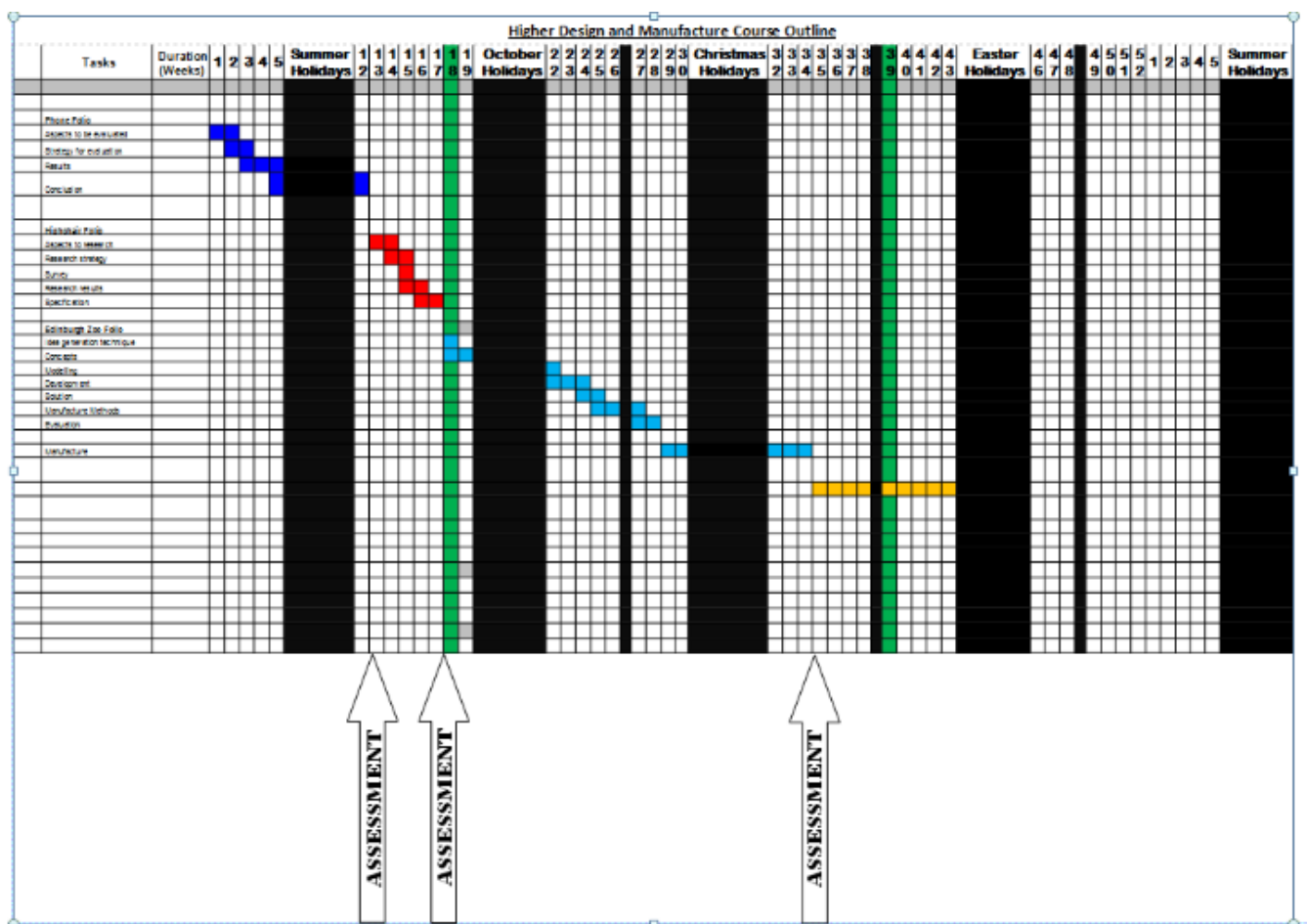
- The prelim will form an important piece of evidence for final decisions on presentations, as well as give an essential opportunity to revise and deal with issues in content. Most of the revision will need to be done outside of class time.
- It will be a 2 hr prelim, 70 marks.

Resources:

- In school, in addition to normal class time, after school study is running on Monday's, and every lunch time. **To gain an award in Higher Design and Manufacture, significant study out with the classroom is required. At least 3 hours a week of study is recommended to ensure the standard required is met. Homework is an integral part of the course allowing both the pupil and teacher to assess if progress is being made. Formal homework will be given and will take a variety of forms.**

- As this is the first year of CfE Higher Design and Manufacture, there is only 1 specimen paper available. Some questions from the old course may be suitable and pupils will be provided with guidance on suitable questions.
 - Revision Guides. Revision Guides.
 - Higher Design and Manufacture 2015/16 SQA Past and Hodder Gibson Model Papers
 - Course Notes - Higher Design and Manufacture Course Notes.
- Revision websites
 - <http://www.bbc.co.uk/education/subjects/znp4wx> is the link for the BBC update to CFE Higher Design and Manufacture.
 - <http://www.sqa.org.uk/pastpapers/findpastpaper.htm> - past papers and specimen paper.
 - <http://www.sqa.org.uk/sqa/41615.html> link for SQA personal exam timetable builder

Course utline and Assessment Dates:



Progression route within the school

National 5 or New Higher Graphic Communication or National 7 (New Advanced Higher) Product Design.