

Introduction

The specification for content for Product Design allows learners to develop an appropriate breadth and depth of knowledge, understanding and skills in the different areas of Design and Technology.

Unit 1: Design and Technology in the 21st Century – This is a written examination. It is a written examination of 2 hours duration and requires learners to demonstrate both knowledge and an understanding of the core content. The in-depth content has been modified for 2021, to support the learner yet still be of sufficient depth to allow learners to progress, and covers objectives A03 and A04.

Unit 2: Design and make task – Non-exam assessment (NEA), of approximately 35 hours. Unit 2 requires the learner to demonstrate the ability to identify, analyse and outline design possibilities. The design should have developed sufficient skills to design, model and make prototypes and to be able to demonstrate evaluative skills within their design work

In June 2020 WJEC announced changes to the course due to the Covid-19 pandemic. Removing the high control requirements from the NEA element of the qualification. This has been reflected in the delivery of these units, as students are now able to complete this at home.

Students may decide to produce a model/CAD Model/mock-up instead of their finished product. Students may also decide to complete the product in the usual manner if they wish to do so.

WJEC have also removed the evaluation section of the NEA from the qualification and also removed some sections from the specification for unit 1 (exam). This has been reflected in the content that has been taught to year 11 and is reflected in the assessment points shown below.

Sources of evidence for Centre Determined Grades in Product Design

Assessment point 1 = Questions from past WJEC papers completed on materials and processes. Completed in lesson under **high control** focusing on two key aspects of unit 1 and was sat and completed week beginning the **7th of December**.

Assessment point 2 = The completion and submission of the following sections for unit two NEA **7th February**. These areas have already been completed under **medium control**. This section is usually worth 20% of the NEA. However, since the announcement in June to remove the evaluation section from the NEA this has been lifted to 25% of the NEA.

- Identifying design possibilities
- Developing a design brief and specification,

Assessment point 3 = A multiple choice online: Socrative covering timber based materials, synthetics, metals and alloys, SMART materials, modern and composite materials. This was timed and monitored by the teacher under **medium control**. Date week commencing **8th March**.

Assessment point 4 = The completion and submission of the following sections for unit two NEA. These areas have already been completed under the **medium control** section of the NEA, this section is now worth 37.5% of the course marks since the changes announced in June 2020. The “generating and refining of design ideas”. The deadline for this section was **February 22nd**. This section was completed under **medium control**.

- Initial design ideas
- Analysis of ideas
- Refinement of Ideas

Assessment point 5 = Standardised assessment of materials provided by WJEC. Aimed to assess all covered content in unit 1. This assessment will be completed over 3 lessons under **high control** during the week beginning the week beginning **03rd May**.

Assessment point 6 = The final design section of the NEA. The decision has been made that no practical work will take place this year. We will therefore assess students on only the final design of their product. This will take the weighting of the making a prototype section of the NEA. This will be completed under **high control** on the week beginning the **17th May**.

Class work = A range of knowledge and skills are to be demonstrated by students in lessons on Product Design. Through their performance in low stakes summative assessment which includes recall tests, quizzes, verbal answers to question and small tasks carried out that are not necessarily graded or levelled, longer independent learning tasks and other low stakes tests such as use of online resources. Students to demonstrate design skills in designing, using CAD, sketching in various perspectives and theory lesson topics.

Non-Examined Assessment = Because of the pandemic, our risk assessments deemed it unsafe to produce practical work in the workshop, therefore no practical work had been completed during the 2020-21 academic year. The weightings for each section have therefore been changed to ensure that all students have a fair chance of succeeding in the course.