

DESIGN TECHNOLOGY

KS5 (Product Design)

Curriculum Purpose

Year 13 primarily focuses on completing the major design project. Design work should be finished before Christmas to allow a substantial amount of time up until Easter to complete the manufacturing to a professional level and evaluate their work and the process. Following that, time is spent revisiting content to prepare for the written exam. The WJEC Eduqas A Level in Design and Technology equips learners to identify and solve real-world problems through innovative design and practical project work.

This subject encourages creativity and imagination, with a focus on iterative design processes to develop and refine ideas. Students design and create prototypes that address real needs and values, both personal and societal.

The course emphasises identifying market opportunities, initiating and developing design solutions, and testing prototypes. It provides insight into the stages of product development, including prototyping, realisation, and commercial manufacture. By integrating knowledge from other subjects such as science and mathematics, learners enhance their ability to create well-rounded, effective designs.

The specification promotes critical thinking, problem-solving, and practical application, encouraging students to explore user needs, wants, and aspirations. Learners are inspired to approach design challenges rigorously and systematically, fostering skills that are both academically enriching and highly relevant to future careers or further education.

This A Level bridges technical, creative, and commercial aspects of design and technology, providing a comprehensive foundation for students to innovate and succeed in a variety of contexts. It offers a challenging yet rewarding experience that combines academic knowledge with real-world applications.

YR13



Course Content and Skill Development

Below are the assessment objectives for this specification. Learners must demonstrate their ability to:

- AO1 Identify, investigate and outline design possibilities to address needs and wants
- AO2 Design and make prototypes that are fit for purpose
- AO3 Analyse and evaluate – design decisions and outcomes, including for prototypes made by themselves and others wider issues in design and technology
- AO4 Demonstrate and apply knowledge and understanding of – technical principles design and making principles





The final exams/ assessment:

- 50% of the mark come from coursework submitted in may of year 13
- 50% final written exam in June

Specification Link

<https://www.eduqas.co.uk/media/kc1pvixc/a-level-design-and-technology-specification.pdf>

When and how assessment of learning will happen

Formative Assessment will happen throughout the course with learners encouraged to take ownership of their work and use assessment criteria regularly to ensure they are meeting the requirements of the specification. Different assessment strategies will be used including verbal feedback, online interactive trackers, assessment sheets etc.

It is important that students develop the skills to be able to interpret mark schemes effectively and ensure they are responding and adapting their work to fully meet the assessment objectives as this will help them succeed in year 13 and beyond.

Summative assessment will happen at the end of the major project in year 13 and in a written exam in June of year 13.



Independent Learning expectations

Students are required to use study periods to work on coursework or project work or revision each week. There is an expectation that students will be using study periods to enhance and advance their work.

Useful Information

Exam board provided online revision material - a series of downloadable PDF revision resources

<https://resources.eduqas.co.uk/Pages/ResourceSingle.aspx?rId=1077>

Other useful exam board provided resources

https://resources.eduqas.co.uk/Pages/ResourceByArgs.aspx?subId=8&lvlId=1&gl=1*mxgvfw*_ga*MTAzNDIyMDU2MC4xNzEwMzc1NzEx*_ga_79NTFZ2DJM*MTczMzc0MDI3MC40LjEuMTczMzc0MDI5Ni4zNC4wLjA.&ga=2.136811827.289622505.1733740271-1034220560.1710375711

Past Papers (please ensure you select A level papers not AS level)

https://www.eduqas.co.uk/qualifications/design-and-technology-as-and-a-level/#tab_pastpapers