

IB Design & Technology Level 3

Qualification Aims and Objectives

Design is a process that links innovation and creativity, providing a structured process based on well-established design principles to resolve real-life problems. Design involves generating ideas, exploring the possibilities and constraints to find solutions. Design is human-centred and focuses on the needs, wants and limitations of the end user. Students will develop an understanding of design through theory and practical work.

Students will have the opportunity to undertake a range of practical projects to demonstrate their understanding and deepen their knowledge. Industrial visits, as well as guest speakers, will allow students to gain real insight into how their subjects relates to the world of work.

This qualification aims to prepare students for the workplace by incorporating skills such as effective researching, creating and designing, manufacturing, analysing, and evaluating. This shows potential employers that students are well-rounded and a focus on industrial visits helps to give them experiences to talk about in potential interviews.

Course Outline

Students study the following:

- Human factors and ergonomics
- Resource management and sustainable production
- Modelling
- Raw materials to final product
- Innovation and design
- Classic Designs

ALL students study Higher Level at Wilmington. The topics are as follows:

- User-centred design (UCD)
- Sustainability
- Innovation and markets
- Commercial Production

External Assessment (60%):

- Two (SL) or three (HL) written papers containing: multiple-choice, data-based, short answer and extended response questions.

Internal Assessment (40%):

- Practical investigations, a group project and a student driven design and manufacture project.



Entry Requirements

Minimum of 5 9-5 grades in GCSE examinations including English and Maths.

Future courses & possible careers

- Architecture
- Engineering
- Design
- Web Design

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