

Product Design

Course Outline

This course builds on the individual strengths of the students and provides a firm grounding in the practical and academic elements of Design and Technology. A course in Product Design will develop knowledge, understanding and a diverse range of skills. Some of the most fulfilling careers today are available to those who possess recognised technological qualifications.

Product Design has now taken the place of Graphics. WJEC have removed Graphics from the list of courses they supply. However, there is a great deal of overlap in the content of both Graphics and Product Design.

What will I study?

Product Design is the process of creating new products intended to be sold commercially. It involves the generation and development of ideas through a design process that lead to new and exciting outcomes which help to solve the myriad of problems encountered in 21stCentury society.

The product designer's role is to combine art, science, and technology to create new products that other people can use. Their evolving role has been facilitated by digital tools that now allow designers to communicate, visualize, analyse and in some cases manufacture in a way that would have taken greater time and manpower in the past.

Students will:

- Learn how to safely use a range of tools and equipment.
- Learn how to cut, shape, drill, form and join various materials.
- Carry out a variety of designing and skill based tasks.
- Place emphasis on analysing, designing developing and manufacturing.
- Develop a knowledge of different woods to make quality products.
- Develop a knowledge of metals and plastics to make quality products.
- Learn to use Computer Aided Design to design and present ideas.
- Use Computer Aided Manufacture to manufacture products or components.
- Complete mock/mini Controlled Assessment Tasks; these will focus on certain aspects of the Controlled Assessment Task.

The course is split 50% Examination and 50% Coursework. The exam and coursework will take place in Year 11