

What is a GCSE in Design and Technology: Graphics?

Design and Technology is about inventing practical solutions to problems through imaginative thinking. Students use a range of tools, materials, skills and techniques to explore, design and make products and systems that meet human needs. Working in stimulating contexts students learn to use today's technologies so they can participate in developing tomorrow's.

This GCSE will allow a student to develop their designing and making skills and increase their knowledge and understanding of Products and their associated materials.

Studying Design and Technology will give a student an opportunity to design and make marketable Products using CAD/CAM (computer assisted design and manufacture). They will also gain an awareness of industrial practices.

Subject areas which will be covered during the GCSE:

This course requires the student to design and make Marketable Products from a range of materials. The focus in Year 9 and 10 is on gaining Skills and Knowledge by undertaking a number of mini projects leading to an examined unit. There is a major emphasis on using CAD/CAM (Computer Aided Design/Computer Aided Manufacture), smart materials and creative thinking. During Year 11 a student will complete one major project based on a topic of their choice chosen from an open list of suitable products (set by the exam board) and a terminal exam.

How will it be assessed?

For Design and Technology the assessment is :

60% Course work (year 10 unit + year 11 unit)

40% Examination at the end of Year 11.

A student will work through several smaller projects before completing your final project at the start of Year 11.

What will the student learn?

A student will learn how to design and make quality Graphic Product using CAD/CAM as well as developing many drawing, presentation and rendering techniques to give their design vision. The student will also learn about how products are designed and manufactured in industry. They will discover new ways of approaching a problem in a unique and innovative way and how to adapt and modify the solution to be sustainable and successful. They will learn vital skills in time management, resource management and independent thinking as well as how to perform effectively within a team.

Possible pathways from this subject:

Careers:

Graphic Design, Product Design, Architecture, Construction, Engineering, Draughtsperson, Printing, Manufacturing, Web design, Automotive Design, Fashion Design, 3 dimensional design, Industrial design.

College courses

A level:

Graphic Design and Product Design

Vocational diplomas in design and engineering:

Professional Building Services. Construction and the Built Environment

National Diplomas: Engineering and Manufacture

