



Product design

AQA

8552



What is this course about?

This subject develops key life skills and equips you with the knowledge and confidence to

- Create fantastic designs using new tools and materials
- Make brilliant products using CAD, CAM and 3D printing
- Work in teams and individually
- Develop empathy and a connection to others
- Understand materials
- Have the freedom to be creative
- Design and make real things
- Solve real-world problems
- Future proof your prospects





What will I learn?

During theory lessons you will learn the content of the examination which includes.

- Classification and Properties of Materials
- Manipulating and Combining Materials
- New and Smart Materials
- Design and Market Influences- Evolution of Product Design, Product Development
- Design Methodology
- Packaging and Product Marketing
- Design in the Human Context
- Consumer, Ethical, Environmental and Sustainability
- Product Manufacture- Industrial and Commercial Practice, Manufacturing systems

During practical lessons you will learn how to design and make a variety of products using technical skills. Drawing and sketching is an important part of the course as well as being able to annotate and explain design decisions. You will learn how to use a variety of tools and equipment safely and effectively in order to produce your own creations.





How will I be assessed?

Written Examination

What is assessed

- Core technical principles
- Specialist principles
- Design and making principles

How it is assessed

- Written examination: 2 hours
- 100 marks
- 50% of GCSE

NEA: Coursework

What is assessed

Practical application of:

- Core technical principles
- Specialist technical principles
- Design and make principles

How it is assessed

- Non exam assessment (NEA): 30-35 Hours approx
- 100 marks
- 50% of GCSE



Where could this course take me in the future?

Students wanting to go on to higher study and/or employment in the field of design or engineering will find that this course provides a superb basis on which to apply. A GCSE in design and technology can also be useful for apprenticeships in carpentry, construction, food manufacture, fashion and textiles, interior manufacturing, and engineering technology.

Design and technology goes well with science and technology subjects, including physics, maths, chemistry and IT. When it comes to the sciences, having knowledge of how physical and chemical processes work can come in handy when designing different products.

Where can I find out more?

- The Design and Technology Association
- BBC Bitesize design and technology
- E mail a.kilbane@psa-bucks.com

DESIGN AND TECHNOLOGY

WHAT IS IT... AND
HOW CAN IT HELP MY CAREER?



WHAT IS IT?

The planning, design and creation of things people use. This includes everything from bridges and cars, to toasters, furniture – or even a fancy cake!



WHAT CAN I WORK WITH?

- Electronics
- Food
- Graphics
- Wood, metal, plastic ("resistant materials")
- Textiles



WHAT SKILLS WILL I GAIN?

- Creativity
- Planning
- Evaluation
- Problem-solving
- Teamwork
- Communication



WHAT JOBS CAN I DO?

- Fashion designer
- Architect
- Tailor
- Product designer
- Civil engineer
- Software engineer



RELATED SUBJECTS

- Art
- Maths
- ICT
- Chemistry
- Physics



successatschool.org

Images: Freepik, FlatIcon