Design Technology

Examination Board: Eduqas
Examination Code: 603/1121/6

Outline of the Course	Design and Technology offers a unique opportunity for you to solve real problems by designing and making products. You will be challenged in your knowledge and understanding in areas of Maths, Science and ICT as well as being asked to be creative and inventive through drawing and practical making skills.
	Through studying GCSE Design and Technology, you will be prepared to participate confidently and successfully in an increasingly technological world and be aware of, and learn from, wider influences on design and technology, including historical, social/cultural, environmental and economic factors.

What will you learn?	**Technical Knowledge and Understanding** There are 5 key topic areas of knowledge and understanding:

- Design and technology and our world
- Smart materials
- Electronic systems and programmable components
- Mechanical components and devices
- Materials – mainly timber and plastics

Designing and Making
You will be required to show understanding and practical skills in the following areas:

- Understanding user needs
- Writing a design brief and specification
- Developing and communicating design ideas
- Investigating the work of others
- Using design strategies
- Independent problem solving
- Selecting and working with materials and components

	• Marking out and measuring • Using specialist tools and equipment
How will I be assessed?	**Component 1: Exam** **Design and Technology in the 21st Century** A mix of short answer, structured and extended writing questions assessing your knowledge and understanding of: • Technical knowledge and understanding • Designing and making In addition, you will be assessed on your ability to: • Analyse and evaluate design decisions and wider issues in design and technology. **Component 2: Design and make project** A sustained design and make task, based on a contextual challenge set by the exam, assessing your ability to: • Identify, investigate and outline design possibilities • Think innovatively and creatively • Design and make prototypes • Analyse and evaluate design decisions and wider issues in design and technology. • Work independently and creatively
Mark Breakdown	**Component 1:** 100 marks − 50% of qualification **Written examination:** 2 hours **Component 2:** 100 marks − 50% of qualification **Non-exam assessment:** Approximately 35 hours
Website links	http://www.eduqas.co.uk/qualifications/design-and-technology/gcse/
Key Dates	Component 1: June Year 11 Component 2: Sept – March Y11
Further Information	Mr. R. Carter – Curriculum Leader for Design Technology r.carter@stretfordgrammar.com

What can I do after I have completed the course?	GCSE Design Technology provides students with an extensive range of skills, preparing them for a large range of different pathways from apprentices to higher education. It will provide a direct pathway to A Level Design Technology courses including Product Design and Engineering. Students can go on to further courses and careers in the following: Product Design Engineering – all strands Architecture Marketing & Promotion Prop and Set Design Interior Design Packaging Design Environmental Design and Planning Advertisement Product Buyer Building Technician Fashion Design Armed Services Careers in Radio and Television Carpenter and Joiner