

Southend High School for Girls AN ACADEMY GRAMMAR SCHOOL

Design and Technology

(Graphic Products & Product Design)

To choose this subject, selct **Graphics** from the online list.

Head of Subject: Mr D Cannon

Aims

- The GCSE in Design and Technology offers a unique opportunity in the curriculum for learners to identify and solve real problems by designing and making products or systems.
- Through studying GCSE Design and Technology, learners 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.
- The specification enables learners to work creatively when designing and making and apply technical and practical expertise, in order to:
 - o develop realistic design proposals as a result of the exploration of design opportunities and users' needs, wants and values
 - o develop decision making skills, including the planning and organisation of time and resources when managing their own project work
 - o be ambitious and open to explore and take design risks in order to stretch the development of design proposals, avoiding clichéd or stereotypical responses
 - consider the costs, commercial viability, and marketing of products

Requirements

Students should have an interest in developing their knowledge and practical skills in Design & Technology, good ICT skills and an ability to explore, articulate and develop ideas. Also, an ability to research information and visual material to support your ideas.

Exam Board: EDUQAS

What will I study?

The subject content is presented under two headings: core knowledge and understanding and in-depth knowledge and understanding.

Core knowledge and understanding is presented in five clear and distinct topic areas:

- · design and technology and our world
- smart materials
- electronic systems and programmable components
- mechanical components and devices
- materials

Learners are required to have an in-depth knowledge in one specialist area:

- Paper & boards (Graphic Products specialist)
- Natural & manufactured timber (Product Design specialist)

How will you be assessed?

Coursework (NEA): approximately 30 hours, completed in supervised class time. Weighted 50%.

Final exam: 2 hours written examination, weighted 50%.

Further Information

Students opting for GCSE Design and Technology will have access to a variety of super curricular opportunities to enhance their learning and leadership skills. These include the chance to apply for the prestigious F1 in Schools competition, where participants design, engineer, and race miniature F1 cars, fostering teamwork, problem-solving, and innovation. Students may also have the opportunity to visit a London Museum, to analyse and draw inspiration from a diverse range of products and exhibitions. GCSE Design and Technology pupils are encouraged to support the department during key events such as Create Week, where they can help inspire younger students through hands-on activities. Additionally, they can take the lead by organising and participating in workshops, developing their leadership and communication skills.

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