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:
    - develop realistic design proposals as a result of the exploration of design opportunities and users' needs, wants and values
    - develop decision making skills, including the planning and organisation of time and resources when managing their own project work
    - 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)
- Thermoforming & thermosetting polymers (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%.