

GCSE DESIGN & TECHNOLOGY

CONTACT: **Mrs Russell** EMAIL: A.Russell@TSATrust.org.uk

WHAT IS THE SUBJECT ABOUT?

Design and Technology will enable you to understand and apply iterative design processes through which you explore, create and evaluate a range of outcomes. You will be able to use creativity and imagination to design and make functional prototypes that solve real and relevant problems, considering your own and others' needs, wants and values.

Design and Technology will provide opportunities for you to apply knowledge from other disciplines, including mathematics, science, art and design, computing and the humanities.

What does the course involve?

- Several mini projects to develop knowledge, skills and understanding across a range of material disciplines including graphics products (papers and board), wood, plastics, smart and modern materials and textiles.
- A substantial design and make task that involves investigating, designing, making, analysing and evaluating a project of your choice. Your portfolio and prototype will be assessed by your teachers and moderated by the exam board.

Further Study/Employment Prospects

Design and Technology provides you with the skills that employers and Further Education course providers seek from applicants in the UK and the rest of the world.

- solving problems with creative and innovative strategies.
- being logical and pragmatic, interested in the process necessary for an idea/concept to become a product.
- being conscious of global social, cultural and environmental issues in relation to Design and Technology.
- attention to detail, numeracy and high levels of computer literacy.
- being effective communicators, capable of team working and able to take on responsibility.

HOW WILL I BE ASSESSED?

The qualification consists of a substantial design and make task undertaken in year 11 and a 2 Hour Written Examination.

WHAT WILL I DO IN LESSONS?

Initial lessons will focus on building core skills and knowledge of drawing, design principles and an understanding of materials and processes. Students will then be able to apply and develop these skills through design and make project such as lighting design, board game design, speaker projects, architectural design and exploration of other materials including textiles, plastics and smart materials.

WHAT ELSE DO I NEED TO CONSIDER?

Design Technology subjects are highly rated by employers, colleges and universities.

Ask yourself the following:

- Do I like to be creative and practical?
- Do I strive for accuracy?
- Am I a flexible thinker?