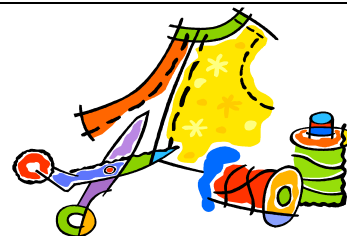




GCSE Design and Technology



Exam Board:
EDEXCEL

Course Outline:

The creative sector is one of the fastest growing industries in the UK. It currently accounts for 6% of the UK's GDP, with further growth predicted for the next decade. This new D&T course is developed to prepare students for entering a very diverse and multi-skilled world of creative and engineering industries.

In this Design and Technology course students will acquire subject knowledge in Design and Technology that builds on Key Stage 3, incorporating knowledge and understanding of different materials and manufacturing processes in order to design and make, with confidence, prototypes in response to issues, needs, problems and opportunities.

Students will develop an awareness of practices from the creative, engineering and manufacturing industries. Through the critique of the outcomes of design and technology activity, both historic and present day,

students will develop an understanding of its impact on daily life and the wider world. They will understand that high-quality design and technology is important to the creativity, culture, sustainability, wealth and wellbeing of the nation and the global community.

In Year 10 students will be studying the core content of the Design and Technology subject as well as specialising in either Textiles or Timber through focused theory lessons once a week and a series of smaller projects aimed to further develop their knowledge and skills in the chosen material category for 2 lessons a week.

In Year 11 students will be working on their major Design and Make non-examined assessment task, where they are expected to produce a high quality product in their chosen material (either Textiles or Timber) accompanied by extensive design portfolio. Students will also be working through the theory content of the course in order to prepare for the written exam.

Method of assessment:

Component 1 - Written examination: 1 hour and 45 minutes - 50% of the qualification - 100 marks

Component 2 - Non-examined assessment - 50% of the qualification - 100 marks. This is a design and make project that will test students in investigating, designing, making and evaluating. The task is internally assessed and externally moderated.

Post 16 Progression:

Upon completion of this course students, who specialise in Textiles can progress to A-level Design and Technology: Fashion and Textiles or other Level 3 vocational qualifications such as BTEC Extended Level 3 Diploma in Fashion and Textiles leading to placements in Fashion college, University or on an Art Foundation Course.

Students who take this course may wish to become a Fashion designer working freelance or for a fashion house, Fashion/Retail buyer, Textiles (fabric) Designer, Pattern cutter, Fibre technologist, Fabric technologist, Textiles colourist, Cutting room manager, Warehouse manager, Production manager, Fashion journalist, Costume designer and so on.

Students specialising in Timber can progress to A-level Design and Technology: Product Design or to Technical Certificates and other Level 3 vocational qualifications such as NVQ Carpentry or Manufacturing and Production.

Students who take this course may wish to become a material scientist, carpenter, interior designer, product designer, industrial designer, architect, car body mechanic, CAD technician (F1 car / building / product design etc.), design engineer with European Space Agency (ESA), Research & Development engineer, Ergonomist, Product Developer etc.

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