



GCSE

Design Technology: CAD/CAM / Fashion in the Design Industry

Course description

This new Design & Technology GCSE course will enable students to choose between two different pathways:

1. CAD/CAM Product Design: this course will enable students to study contemporary technologies, work with a range of materials and learn about modern processes. The course will be predominantly be learning CAD skills such as 2D design and Solid works and CAM skills using the laser cutter and 3D printers. You will also analyse designers in industry such as Steve Jobs and Phillippe Stark.

2. Fashion in the DT industry: this course will enable students to study core features of the design industry. It will encompass fashion and textiles as well as other design industries, exploring designers such as Vivienne Westwood and Alexander Mc Queen.

The course is designed for students who like designing and developing their ideas in an iterative process. Students will enjoy working with a variety of tools, equipment, materials and processes.

Students will use their creativity and imagination to design and make prototypes that solve real and relevant problems; whilst applying technical and practical expertise. The school offers the latest computer aided technologies including a computerised embroidery machine, a computerised milling machine, 3D printers and a laser cutter to enable students to enhance their designs.

This course leads onto OCR A Level Design and Technology and is a good choice for those interested in going on to work in either Fashion Design, Furniture Design,



Head of Department
Mrs N Morris



Exam Board
OCR



Number of timetabled periods per fortnight:
7



Equivalent number of GCSEs awarded:
1



Exam Board website
[Design & Technology](#)
School website
[HBHS Technology Dept.](#)

Assessment

Non Exam Assessment – Iterative Design Challenge (50%)

Students will be given the opportunity to demonstrate the knowledge, understanding and skills they have developed throughout the course in order to create a working prototype and a portfolio of evidence that reflect a real-world design consideration.

Written Examination – Principles of Design and Technology (50%)

This single exam is 2 hours in length. It covers questions from the core content area and the 'in-depth' area that students have chosen to study. The paper is split into two sections.

Section A: This consists of three detailed questions that require you to demonstrate your core knowledge (55 marks).

Section B: A situational context will be provided with questions that will test your in-depth knowledge on materials, processes, technical understanding and wider issues. (45 marks).

Please note we will be asking for a £15 contribution to do this course

