GCSE DESIGN & TECHNOLOGY

General Information

Description

Course details: EDUQAS GCSE Design & Technology.

Topic Breakdown

Year 10 - Course

GCSE Design & Technology enables students to specialise in either RMT, Graphic Products or Textiles Technology (taught by specialist teachers) whilst also extending their knowledge of designing and making generally.

Building on the solid foundations gained during Key Stage 3 ADT lessons, pupils undertake a selection of Research, Design and Make projects and Focussed Practical Tasks (based on either RMT, Graphics or Textiles), many using ICT and CAD/CAM. Pupils will record their work and thoughts in a portfolio of evidence. The following projects are listed in the order in which they are taught in each specialist area:

RMT	Graphic Products	Textile Technology
• Model Designer Chair • 3D Printed Biomimicry Product • Acrylic Display Stand	• Alessi Product Packaging • Point of Sale Display Stand • 3D Printed Product	• Arts & Crafts Cushion • Zara Influenced Skirt/Shorts • Dye Sublimation Project

These tasks will cover the **5 Technical Principles**:	Pupils will also be taught generic **Designing and Making Principles:**
Core knowledge and understanding is presented in five clear and distinct topic areas: 1. Design and technology and our world 2. Smart materials 3. Electronic systems and programmable components 4. Mechanical components and devices 5. Materials	Core knowledge and understanding that learners are required to develop and apply is presented in ten clear topic areas: 1. Understanding design and technology practice 2. Understanding user needs 3. Writing a design brief and specifications 4. Investigating challenges 5. Developing ideas 6. Investigating the work of others 7. Using design strategies 8. Communicating ideas 9. Developing a prototype 10. Making decisions

Year 10 - Homework

Homework is an integral part of the course and is set weekly, in order to prepare for Year 11 and the written exam. We use an online virtual classroom via a programme called Google Classroom. All SCHS pupils studying Design & Technology are members and can view information, homework and comments left by teachers as well as hand in homework. To access classroom, students should sign into their school Gmail account (from any PC inside or outside of school) and navigate to classroom via the grid of dots in the top right hand corner of the screen.

Homework will cover the following technical principles:

Design and technology and our world
Smart materials, composites and technical textiles
Electronic systems and programmable components
Mechanical components and devices
Materials

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Year 10 - Mock Exam

There will be a 2 hour mock exam during the month of June.

Year 11 - Non-Exam Assessment

Pupils undertake a single Non-Exam Assessment (approx. 35 hours) which will involve exploring, creating and evaluating product(s) from a list of contextual challenges set by the exam board on 1st June. They will submit a prototype, a "sketch book" project folder and a final presentation folio.

Year 11 - Exam Assessment

There will be a 2 hour mock exam during the month of December.

There will also be a single written exam paper lasting 2 hours during June.

Year 11 - Homework

In year 11 homework will continue to be set as and when appropriate. Google classroom will also have access to past papers, links to revision sites (such as Seneca Learning) and helpful hints and tips regarding preparation for the final exam.

Additional Information

Assessment

Component 1: Written Paper, "Design and Technology in the 21st Century". 2 Hours, 100 marks, 50%

Component 2: NEA (Coursework Project) Approx. 35 Hours, 100 marks, 50%

Contact Information

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