

# GCSE DESIGN & TECHNOLOGY

2017-2019



## General Information

### Description

Course details AQA GCSE Design & Technology. Course code: 8552.

## 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. 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 specialised area:

RMT	Graphic Products	Textile Technology
<ul style="list-style-type: none"><li>Wooden Picture Frame</li><li>Model Chair</li><li>Styrofoam Modelling</li><li>3D Printed USB Casing</li><li>Acrylic Holder</li><li>Teamwork Exercise</li></ul>	<ul style="list-style-type: none"><li>Alessi Product Packaging</li><li>Pop-Up book and paper engineering</li><li>Harry Beck web page design</li><li>CD Packaging and Promotional items</li><li>Teamwork Exercise</li></ul>	<ul style="list-style-type: none"><li>William Morris Cushion</li><li>Zara Influenced Skirt</li><li>Vivienne Westwood Garment</li><li>Dye Sublimation Project</li><li>Teamwork Exercise</li></ul>

These tasks will cover the <b>8 Specialist Technical Principles:</b>	Pupils will also be taught generic <b>Designing and Making Principles:</b>
<ol style="list-style-type: none"><li>Selection of materials or components</li><li>Forces and stresses</li><li>Ecological and social footprint</li><li>Sources and origins of materials</li><li>Using and working with materials</li><li>Stock forms, types and sizes of materials</li><li>Specialist techniques (tools, equipment and processes)</li><li>Surface treatments and finishes</li></ol>	<ul style="list-style-type: none"><li>Investigation, primary and secondary data</li><li>Environmental, social and economic challenge</li><li>Communication of design ideas</li><li>Prototype development</li><li>Selection of materials and components</li><li>Tolerances</li><li>Material management</li><li>Tools and equipment</li><li>Techniques and processes</li></ul>

### 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 ask questions, hand in homework and even get ahead (as all future homework is available to see in advance). 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 6 core technical principles (some knowledge of all media areas):

1. New and emerging technologies
2. Energy storage and generation

# GCSE DESIGN & TECHNOLOGY

2017-2019



3. Modern and smart materials

4. Systems approach to designing

5. Mechanical devices

6. Materials and their working properties

## Year 10 - Mock Exam

There will be a 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 and a concise portfolio. This is, broadly speaking, the equivalent of the Controlled Assessment projects carried out in previous years.

## Year 11 - Exam Assessment

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

There will also be a single written theory paper lasting 2 hours.

## Year 11 - Homework

In year 11 homework will continue to be set weekly. Google classroom will also have access to past papers, links to revision sites and helpful hints and tips regarding preparation for the final exam.

## Additional Information

### Assessment

Unit 1: Written Paper.

2 Hours, 100 marks, 50%

Unit 2: NEA (Coursework Project)

35 Hours, 100 marks, 50%

## Contact Information

### Teacher

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