

# Course Information...

## ...about GCSE in DT: Resistant Materials

### Examination Details

AQA  
4560

### Assessment Details

1 controlled assignment (60%)  
1 written examination (40%): 2 hours

All pupils are entered for the same tier.

### Course Information

#### Year 10

Pupils will complete their controlled assessment during the course of the year. This will involve completing an 18 page A3 booklet covering all elements of the Design Process including a final practical product. **Pupils can access a guidance booklet through their FROG assignments which provides details of how pupils should complete the project, specifically the requirements and the suggested layout for each of the pages they should include.**

The deadline for the completion of the entire Assignment will be **Friday 5<sup>th</sup> July 2013**

#### Year 11

Pupils will learn about the wide variety of theory based topics around the subject of Resistant Materials. This will be delivered through a range of short practical based tasks and the completion of the homework booklet. This booklet covers all of the elements within the subject area and comprises 28 separate homework tasks which will be put together to form a concise revision guide in the lead up to their terminal examination in the summer of 2014.

#### Preparation Sheet

All pupils are issued with a preparation sheet on 1<sup>st</sup> March. This sets the theme and context for Section A of the examination.

#### Examination - All questions must be answered

- Design questions (Section A) requiring the evaluation and analysis of existing resistant materials products, the analysis of a brief, the production of a specification and labelled idea sketches. The use of a variety of rendering skills and drawing types.
- Short answer questions on aspects of theory, e.g. specifications, material properties, manufacturing techniques, industrial practices, environmental issues. Planning questions requiring sequencing e.g. flow charts and appropriate use of tools and equipment.
- Long answer questions involving the use of computers in design and manufacture and other real life issues.

#### Controlled Assessment (Coursework) Information

- One piece of controlled assessment which will involve the design and manufacture of a product using a range of resistant materials and a coursework folder (60% of final examination mark).
- Space limitation of 20 sheets A3 paper (it is essential pupils are concise).
- Emphasis on use of ICT and drawing skills. Pupils must photograph their finished outcome and all stages of development and making
- Tasks are completed under direct supervision (except for research)
- Pupils should try to be creative with designs & materials being used.
- Final Deadlines (Year 11): Practical work - one week before February half term.  
Design Folder – the Friday after February half term

#### Additional Requirements:

- All pupils will need an A3 folder to bring design work into each lesson, coloured pencils, rulers, fine fibre tip pens, 2H, HB, 2B pencils, etc., USB to store homework but remember to save backups too.
- Download free program 'Google Sketch' – use it to develop CAD drawing techniques

# Steps to Success...

## ...in GCSE D&T: Resistant Materials

1	Ask another member of your family to proofread your work to check for mistakes.
2	Meet all deadlines and ensure you act on teacher feedback to improve your work.
3	Be concise. Use a small font and only write relevant information. <u>DO NOT</u> copy chunks of information from textbooks, or stick sheets in from the Internet – you must use your own words to show your understanding of the information.
4	Attend GCSE clubs and ICT sessions for one-to-one support and advice.
5	Use a variety of presentation techniques within your project (including ICT).
6	Use the preparation sheet to help you fully prepare for the exam. Study the contents and pictures carefully (these are usually an excellent indication of what may appear in the exam).
7	Read the whole paper first (one question usually leads on to the next).
8	Read each question carefully and then underline key points. Never leave spaces (always make a guess at the answer).
9	Check how many marks are available for each question and make sure you have given one fact for every mark.
10	Remember to bring a pencil, ruler, rubber, calculator, pair of compasses and colouring pencils.

### Useful Resources:

Design & Technology: Resistant Materials Technology Nelson Thorne ISBN 9781408502730

[www.bbc.co.uk/education/gcsebitesize](http://www.bbc.co.uk/education/gcsebitesize)

[www.dtonline.org.uk](http://www.dtonline.org.uk)

[www.data.org.uk](http://www.data.org.uk)

[www.helenhudspith.com](http://www.helenhudspith.com)

[www.samlearning.com](http://www.samlearning.com)

[www.technologystudent.com](http://www.technologystudent.com)

[www.design-technology.info](http://www.design-technology.info)