

# Parent Revision Surgery

## Design Technology

Exam: Friday 22nd May

Your guide to study support

Helping your child to be the best they can be



# How to prepare for the upcoming GCSE Design Technology exam?

There are lots of ways your child can access revision support to help them to prepare for their written exam:

## 1. Attendance at revision sessions

- GCSE revision sessions will take place for an hour after school on every Friday Week 1. These sessions will revisit a range of topics. In addition, a faculty room will be available on lunchtime for pupils to access additional support.

## 2. Revision guide

- This is an AQA specific guide which provides a very useful summary of key content. They are very useful to refer to when preparing revision materials such as flash cards and mind-maps. Revision guides can be purchased from the finance office.

## 3. Focus eLearning

- This is an online resource which is provided by the school. It has a range of topics with videos and picture to aid revision.
- <https://www.focuselearning.co.uk/u/4444/ErDhhjycqftydxuizuishoEnrxjpntomf>
- Students must use the following details to log in: Username: student@whickham4444  
Password: zyuvp6c63



# How to prepare for the upcoming GCSE Design Technology exam?

1. Use of book/files
  - a. These can be an excellent way to revisit content and look back over your own work. In particular, looking at teacher feedback in past papers as an effective way to identify what mistakes have been made in previous work and what can be done to make further progress.
2. Online resources
  - a. The use of online websites is of great benefit to your child, students should be familiar with these websites as they have used them to aid with their exam
  - b. <http://www.technologystudent.com/>
  - c. <https://www.bbc.co.uk/bitesize/examspecs/zby2bdm>
  - d. <https://kahoot.com/>
3. Parent revision booklet
  - a. This booklet should be used a question and answer booklet so that you can help coach your child into answering content correctly with accuracy. Ideally topics should be worked through at random. We hope that you enjoy using this booklet to help check your child's understanding of the topics that they have completed. You can use the school made revision booklet to pick topics and ask your child a question. They were issued with these at the start of Year 11, they are located on your child's shared drive ready to view as a PDF or reprint.
  - b. Shared Drive- Design Technology KS4-Exam- Revision Booklets

# How will you child be assessed?

## Written exam

### What's assessed?

- Core technical principles
- Specialist technical principles
- Designing and making principles

### In addition:

- At least 15% of the exam will assess maths
- At least 10% of the exam will assess science

### How it's assessed

- Written exam: 2 hours
- 100 marks
- 50% of GCSE

- Section A
  - Core technical principles
  - (20 marks)
  - A mixture of multiple choice and short answer questions assessing a breadth of technical knowledge and understanding
- Section B
  - Specialist technical principles
  - (30 marks)
  - Several short answer questions (2-5 marks) and one extended response to assess a more in depth knowledge of technical principles
- Section C
  - Designing and making principles
  - (50 marks)
  - A mixture of short answer and extended response questions
- Unit 1- New and emerging technologies
- Unit 2- Energy, materials, systems and devices
- Unit 3- Materials and their working properties
- Unit 4- Common Specialist technical principles
- Unit 5- -Specialist technical principles (Timber based materials)
- Unit 6- Designing principles
- Unit 7- Making principles

<b>Unit 1 - New and Emerging Technologies</b>		<b>Unit 3- Materials</b>		<b>Unit 6 -Designing Principles</b>	
Industry and Enterprise		Paper and Boards		Investigation, Primary & Secondary Data	
Sustainability and the Environment		Timbers		The Work of Others	
People, Culture and Society		Metals and Alloys		Design Strategies	
Production Techniques and Systems		Polymers		Communication of Design Ideas	
Informing Design Decisions		Textiles		<b>Unit 7- Making Principles</b>	
<b>Unit 2 - Energy, Materials, Systems and Devices</b>		<b>Unit 4 - Common Specialist Technical Principles</b>		Selection of Materials and Components	
Energy Generation		Forces and Stress		Tolerances	
Energy Storage		Improving Functionality		Material Management	
Modern Materials		Ecological and Social Footprint		Tools, Equipment, Techniques and Finishes	
Smart Material		The 6 R's		Surface Treatments and Finishes	
Composite Materials and Technical Textiles		Scales of Production		<b>Mock Topic Tests</b> (mark in the column to the right)	
Systems Approach to Designing		<b>Unit 5- Timber</b>		Test 1:	
Electronic Systems Processing		Sources and Origins		Test 2:	
Mechanical Devices		Working with Timbers		Test 3:	
Interim Test:		Commercial Manufacturing		Test 4:	

Thank you for your continued support

Questions?

