



# GCSE Design and Technology



**50% Exam**

50% Coursework

**Exam = 2 hours** with a mixture of multiple choice, short and long answer questions

Learning Objective:

To understand how to answer questions in the DT exam

Challenge Objective:

To understand how to gain full marks when answering questions in the DT exam

Key words:

Explain  
Evaluate  
Discuss

~Motivate & Inspire~ High Challenge~ Meeting All Learning Differences~  
~High Quality Marking, Feedback & Assessment ~

# Exam Break Down

## Section A – Core Technical Principles (20 marks)

- 10 questions which are multiple choice – 1 mark each
- Short response questions 1-3 marks each

## Section B – Specialist Technical Principles (30 marks)

- Mixture of short response questions 1-3marks each
- One long answer question 8-10 marks

Make sure you select  
'TIMBER or PAPER &  
BOARD' questions

## Section C – Design and Making Principles (50 marks)

- Mixture of short and long response questions, typically around 6 marks
- Will contain some form of drawing

Up to 15% of the paper will have a maths link! It will be on foundation level maths





## Section A – Core Technical Principles (20 marks)

- 10 questions which are multiple choice – 1 mark each
- Short response questions 1-3 marks each

In multiple choice questions do NOT leave any questions blank – if you don't know it make an educated guess!

If you have made a mistake make it clear that you have changed your response. If the examiner is unclear they will NOT award you the marks!



5

Which one of the following statements is true?

- A Balsa is a natural material used in model making
- B Medium Density Fibreboard is a man-made material commonly used for outdoor furniture
- C Silk is a man-made material used in the textiles industry
- D Urea formaldehyde is a natural material used to manufacture electrical sockets

[1 mark]

**What is the correct answer???**



## SECTION B - Specialist Technical Principles

The following are examples of different stock forms.

Stock forms				
Acrylic rod	Corrugated cardboard sheet	Aluminium sheet	Wool yarn	Medium Density Fibreboard (MDF)

# Multiple Choice

ALWAYS select the material we have studied – specialist topic is **TIMBER**

You will **NOT** know enough about the other topics to get full marks

14 Choose one of the stock forms in the table on page 10.

Name one of the primary sources it is made from.

In the box below, use notes and/or sketches to explain the process of changing it from primary source to stock form.

[5 marks]

Name of stock form \_\_\_\_\_

Name of primary source \_\_\_\_\_



16 . 1 Choose one product or component in Figure 2 and describe two features that make it suitable for mass production.

[2 x 2 marks]

 Steel car door	 Polymer toy musical instrument	 Newspaper	 Cotton T - Shirt	 Printed Circuit Board	 Flat pack furniture
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Figure 2

Name of product/component \_\_\_\_\_

Feature 1 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Which product should you chose to talk about?**



You have been asked to redesign the watch shown on page 19 to make it suitable for a child aged between 9 and 11 years old.

The data in the table below shows the preferred colour scheme according to 240 children aged between 9 and 11 years old.

Complete the table by calculating the missing percentage of children who like different colours.

[1 mark]

Colour Scheme	Number of children	Percentage of total
Pastel colours	60	25%
Primary colours	102	
Fluorescent colours	36	15%
Subtle colours	30	
Metallic colours	12	5%
Total	240	

# Maths

Don't panic at the thought of maths questions. They are straight forward calculation – they are not intended to catch you out!

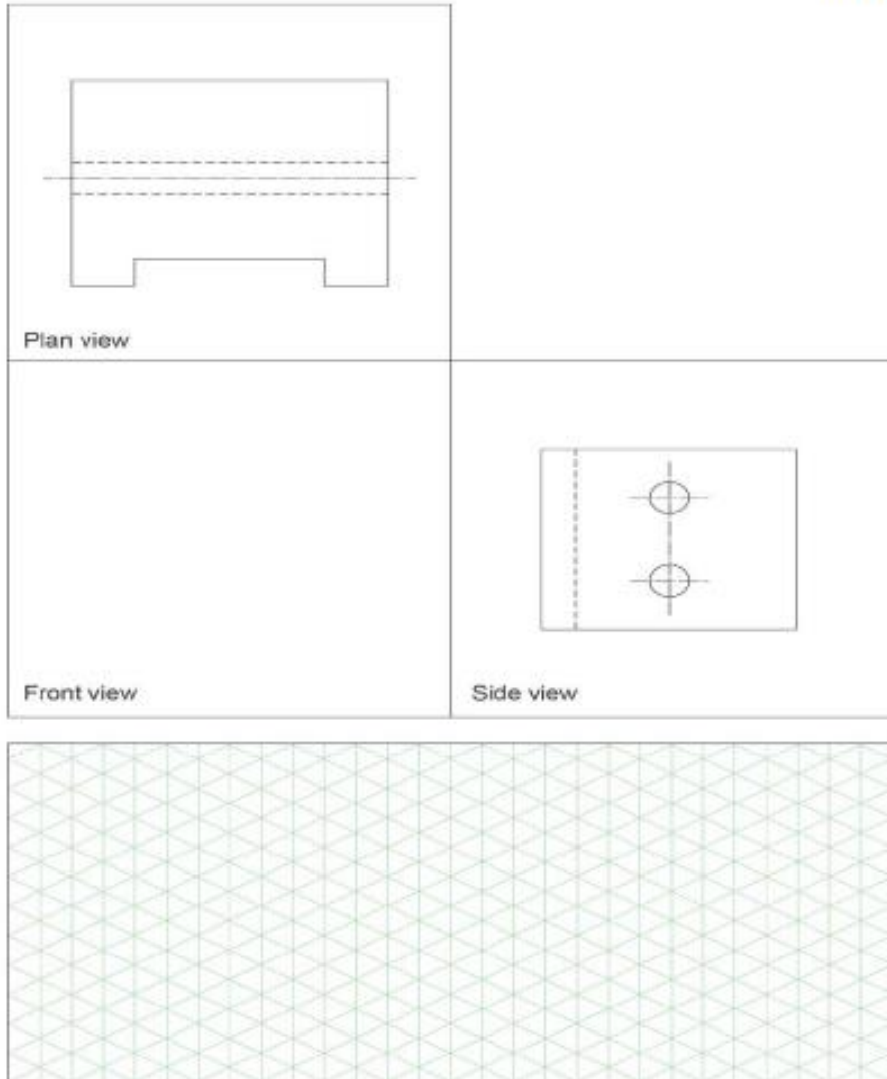
**Think logically about them – they can be easy marks**



Below is a drawing of part of a point of sale display.

Complete the third angle orthographic projection by adding a front view and isometric drawing of the shape in the boxes provided.

[5 marks]



# Drawing Questions

Carefully read what you have been asked to do!

## ENSURE

- ✓ Your work is neat
- ✓ You use a sharp pencil
- ✓ You use a ruler for straight lines
- ✓ If it asks you to render the design make sure you add colour

**If you do make a mistake – try to rub it out or ask for a new piece of paper to do the work on.**

**Don't get annoyed and leave it. JUST ASK!**





# Command Words

Analyse, consider, discuss	Require students to describe and evaluate by reference to different and perhaps contrasting factors.
Assess	Requires students to make an informed judgment based on the information presented and their knowledge and understanding of the topic area.
Define	Requires students to state what is meant by a particular term.
Describe	Requires students to present their knowledge and understanding of the issue in the question.
Explain	Requires students to use reasoning and/or reference to theory in presenting their knowledge and understanding.
Outline	Similar to 'describe' or 'explain', but implies brevity.
State	Requires a concise answer with no supporting explanation.
Suggest	Requires students to respond in a situation when there is no unique answer and/or apply their knowledge and understanding in a novel context.

# Answering Questions

## 2 marks

Make two different points or

Make one point and give an example

## 3 marks

Make two points and give one example or

Make two points and fully explain one of them in more detail

## 4 marks

Make two points and give two examples or

Make two points and fully explain both of them

Give four different relevant points

- ✓ Make sure you fully explain your answer
- ✓ Examples are great ways of getting marks
- ✓ Imagine the examiner knows nothing!

You can use tables and bullet points to answer long response questions

**However make sure you fully explain your answer – don't just write one word!**





Before you open the paper – **take a deep breath and relax!!**

If you don't know one of the answers **move onto the next question!** You can always go back to it if you have time at the end!

If you finish before time read through your paper and **check you have made enough points for each mark available.**

**GOOD LUCK!**



## **Tuesday P5 (PE)**

Jack Chaddock

Josh Horobin

Josh Jones

Alisha Orme

Cameron Wilkes

Jordan Willaims

Cole Wood

Rosie Taylor

Marissa Mabbley

## **COURSEWORK INTERVENTION**

The opposite pupils are required to attend coursework intervention on a **Tuesday P5** until EASTER

No exceptions and no excuses