

WJEC Eduqas GCSE (9-1) in
DESIGN AND TECHNOLOGY

ACCREDITED BY OFQUAL

SPECIFICATION



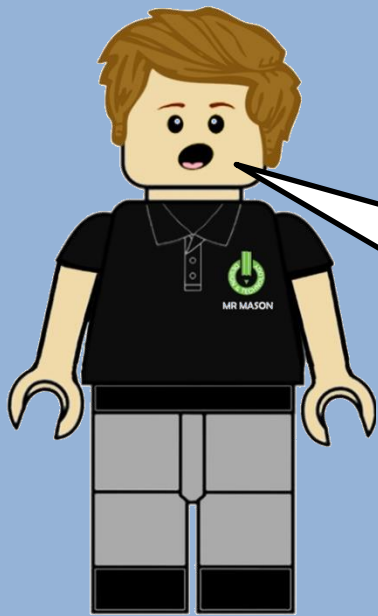
Teaching from 2017
For award from 2019



Preparing for the Exam – What to know and Technique!



The following lessons have been created to ensure you are all ready for the mock exam and have a clear idea of the layout of the paper and what to expect.



Don't forget that all of the resources you have used so far, plus links to revision materials are all on www.sohamdt.com



Preparing for the Exam – What to know and Technique!

To start with, let's start with the basics. Just to start!

- The exam is 2 hours long
- There are two sections; Section A and section B
- The exam is out of 100 marks
- You must have a calculator

2 Hours

For examiner's use only			
Section A	1		10
	2		10
	3		15
	4		20
	5		20
Section B	6		25
Total			100

ADDITIONAL MATERIALS

You will need basic drawing equipment, coloured pencils and a calculator for this examination.

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer questions 1 to 5 and any **one** question 6.

Write your answers in the spaces provided in this booklet.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.



Preparing for the Exam – What to know and Technique!

You must answer all of the questions in section A / Questions 1 to 5.

When it comes to Section B / Question 6 you must only answer one of the sections; either:

- Electronic systems and Mechanical devices
 - Paper & Boards
- Natural & Manufactured Timber
- Ferrous & Non Ferrous Metals
 - Thermosetting & Thermoforming Plastics
 - Fibres & Textiles

2 Hours

For examiner's use only

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	2		10
	3		15
	4		20
	5		20
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Preparing for the Exam – What to know and Technique!



This is all there is to warn you in the exam paper that you must only answer one of the questions!

Section B

Answer **one** of the questions in this section

If you take RM then you answer the Natural and manufactured timber questions from section B:

6. **Natural and manufactured timber**

If you take Graphics then you answer the Papers and Boards questions from section B:

6. **Papers and Boards**



The Different types of Questions

All of the questions will start with a specific word depending on what is expected:

Give State Name Place	1 mark	These questions are designed to ease the learner into the question. They need a simple statement, a short phrase, tick line etc.
Describe Outline Explain Justify	2 marks	<p>These questions ask the learner to describe something in detail. The answer will be in sentences and/or in a list. There is a need for detail in the answer with elaboration of the answer.</p> <p>Sometimes the question will ask the learner to use notes and sketches; this means that a clearly labelled sketch or diagram will of course gain the marks.</p>

The Different types of Questions



Evaluate Analyse	Extended marked questions	<ul style="list-style-type: none">• <i>Evaluate could imply involve assessing or appraising a situation or product or material giving reasons to support their answers.</i>• <i>Analyse means examining and dissecting a situation or product giving thoughtful appropriate reasons to support the answer. It could include finding logical chains of reasoning.</i>• These questions are designed to test, stretch and challenge the more able learner.• The question requires the learner to make a well-balanced argument involving both advantages and disadvantages.• A paragraph or a number of sentences extended writing will be required
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Unlocking Questions

- (a) Study the pictures of the two cushions shown below and answer the questions that follow.



Floor cushion



Bolster cushion

- (i) State the name of the edge finish that has been used on both cushions and give a reason for its use.

Edge finish:[1]

Reason:

.....[1]

- (ii) The main material used for both cushions is woven cotton. Give **one** reason why a material with a woven construction is the most suitable choice for these products. [1]

.....

'State' is the keyword.

One word answer is acceptable- edge finish.

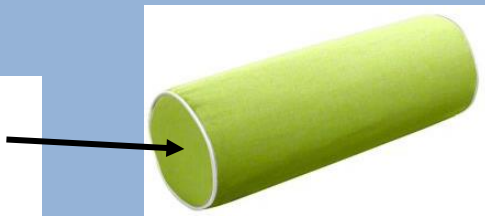
Reason needs an explanation (i) and (ii).



Unlocking Questions

- (b) The finished diameter of the circular ends on the bolster cushion is 20cm as shown below.

*Circular end panel
with a finished
diameter of 20cm*



Calculate what the circumference of the circular template would need to be in order to achieve the finished measurement.

A seam allowance of 1.5cm will need to be included in your calculation. [5]

.....
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.....
.....

Calculate is the key word.

[5] - more marks than normal! therefore more stages to show.

5 dotted lines

Method 1 based on: πd (1 mark)

Diameter plus seam allowance
(1 mark)

20cm + 3cm (1.5cm + 1.5cm)
= 23cm (1 mark)

3.142 (π) x 23cm (1 mark)
= 72.3cm (1 mark)

Candidates might take π as 22/7
look for same stages with correct
final answer.

The student could use a different method, which is totally acceptable PLEASE, PLEASE, PLEASE, get them to write down the processes.

Unlocking Questions



- (c) The cushions are to be sold under the fair trade logo. Analyse the impact on communities and workers who benefit under this scheme.

[5]

Analyse is the keyword.

**[6] - extended writing
increased dotted lines.**

Looking for 6 different reasons
or/and extended answer
justifying the reason.

*Reduction in poverty[1]; workers
receive a fair wage for their
products[1].*

*Helps improve the lives of people
and communities in developing
countries.[1]*

Unlocking Questions



- (d) It is important that designers consider the world we live in and the needs of future generations.

Evaluate how designers can lessen the impact on our environment when designing new textile products made from natural materials. [6]

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Evaluate is the keyword.

**[6] - extended writing
increased dotted lines.**

Looking for 6 different reasons
or/and extended answer
justifying the reason.

*Recyclability of materials
component parts[1]*

*Selection of materials before
designing and its life expectancy
[1]and the effect on reducing the
need to dispose of in landfill
sites[1]*