



ADVANCED SUBSIDIARY GCE
DESIGN AND TECHNOLOGY
 Advanced Innovation Challenge

F521/02

Session 3 – Reflection test

Candidates answer on the Question Paper

OCR Supplied Materials:
None

Other Materials Required:

- Candidates completed Answer Booklet

Wednesday 20 January 2010
Morning
 Duration: 1 hour



Candidate Forename		Candidate Surname	
--------------------	--	-------------------	--

Centre Number						Candidate Number				
---------------	--	--	--	--	--	------------------	--	--	--	--

INSTRUCTIONS TO CANDIDATES

- Write your name in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use only black ink. Pencil may be used for graphs and diagrams and sketches only.
- This paper contains two questions – you are to answer **both** questions.
- You are advised to spend 30 minutes on each question.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided.
- You may use annotated sketches to support your written answer.

INFORMATION FOR CANDIDATES

- The number of marks for each question is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **20**.
- **You should have the Answer Booklet that you produced in sessions 1 and 2 to assist you during this paper.**
- This document consists of **8** pages. Any blank pages are indicated.

Examiner's Use Only:			
1			
2			
Total			

Answer **both** questions in the space provided

1 Reflect on the product you have designed.

Ergonomics is an important factor for designers and manufacturers to consider when developing a product. Prepare a discussion which addresses ergonomic issues that affect your product.

You should include:

- Modifications you would make to improve its ergonomic design.
- Materials and manufacturing techniques that could be used.
- Economic implications.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

A series of 25 horizontal dotted lines spanning the width of the page, providing a template for writing.

2 Reflect on the product you have designed.

Designers and manufacturers consider fashion trends when developing a product. Prepare a discussion which addresses these issues.

You should include:

- Modifications you would make to your product to improve its appeal to a broader range of users.
- Commercial viability, and methods of manufacture.
- Levels of production.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

A series of 25 horizontal dotted lines spanning the width of the page, providing a template for handwriting practice.

PLEASE DO NOT WRITE ON THIS PAGE



Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations, is given to all schools that receive assessment material and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.