

# Monday 23 May 2016 - Morning

## AS GCE DESIGN AND TECHNOLOGY

**F521/02** Advanced Innovation Challenge SESSION 3 – REFLECTION TEST

Candidates answer on the Question Paper.

OCR supplied materials:

None

Other materials required:

 Candidate's completed Workbook (F521/01) **Duration:** 1 hour



Candidate forename					Candidate surname				
Centre numb	er					Candidate nu	ımber		

#### **INSTRUCTIONS TO CANDIDATES**

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams 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. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- You may use annotated sketches to support your written answer.
- Do **not** write in the bar codes.

### **INFORMATION FOR CANDIDATES**

- The number of marks is given in brackets [ ] at the end of each question or part question.
- You should have the Workbook that you produced in sessions 1 and 2 to assist you during this paper.
- The total number of marks for this paper is 20.
- 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 Sustainability is an increasingly important issue for designers; the local council is keen to raise environmental awareness among its visitors.

Prepare a discussion about your product that reflects on environmental and social issues.

You should include:

- Modifications that you would make to your product to make it more environmentally friendly and sustainable.
- Consideration of the Life Cycle Analysis of your product.

<ul> <li>Details of specific manufacturing processes and technologies that can be used to improve your product's environmental impact.</li> </ul>	ove 10]
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2 Aesthetics is an important factor for any designer to consider when a product is designed to be used in a public space.

Prepare a discussion that reflects on your product and considers its suitability for use in a town centre.

You should include:

- Details of the aesthetic qualities of your product and how this will fit into a town centre environment.
- Any modifications you could make to your product to improve its aesthetics.

<ul> <li>Details of an modifications</li> </ul>	y specific materials	and manufactur	ing methods that	t would be us	ed for these [10]



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