

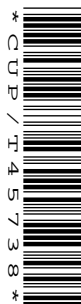
**GENERAL CERTIFICATE OF SECONDARY EDUCATION**  
**DESIGN & TECHNOLOGY**  
**PRODUCT DESIGN**

**B802**

Unit 2: Designing and Making Innovation Challenge

**JUNE 2008**

6 hours in either **one** 6 hour session or **two** 3 hour sessions plus 30 minutes to reflect on design ideas within 72 hours of the completion of the challenge.  
The 6 hour examination can be conducted at the discretion of the centre between 15th May and 23rd June 2008.



Candidate  
Forename

Candidate  
Surname

Centre  
Number

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Candidate  
Number

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Date of Challenge

Date of Reflection

Session 1



Session 2

**INSTRUCTIONS TO CANDIDATES**  
Please clearly write below

**Title of the Innovation Challenge**

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|--|
|  |
|--|

**For Examiner's Use**

|                  |    |  |
|------------------|----|--|
| Design           | 22 |  |
| Communication    | 10 |  |
| Use of Materials | 12 |  |
| Analysis         | 12 |  |
| Reflection       | 4  |  |
| <b>TOTAL</b>     | 60 |  |

**INSTRUCTIONS TO CENTRES**

It is essential that centres follow the instructions printed in the Teacher's Guide for the conduct for running this Innovation Challenge.

Boxes 3 and 4 are printed on page 12 of this workbook. This page should only be folded out once boxes 1 and 2 have been completed.

The activity (with the exception of Time to Reflect) is designed to take place in a design room, studio or workshop (not the centre's examination room/hall).

This document consists of **13** printed pages and **1** blank page and an Insert.

## Time to Reflect

Use this page to review your ideas and put forward any further suggestions you may have to improve your product further.

This can **ONLY** be completed during the period 24 hours after and within 72 hours of the completion of the challenge. No other pages of this workbook can be added to, or amended during the 30 minute reflection time.

## Session 1

- 1** What could you design? What are your initial thoughts?  
*Use sketches and notes to communicate your thoughts.*

- 2** What are your best ideas?

1

2

3

Possible design brief(s).

1

2

3

Additional space

- 5** Start designing. Use sketches, notes and/or models to show your ideas.

**7 'Traffic Light Zone'.**

What problems can you see?

Which is your best idea?

- 6** What do you think of your ideas so far?

Which is your most unusual idea?

Additional space

## 8 Developing your idea (Photograph 1)

14 Complete this box ONLY in Session 2

Check that your design meets your original specification



## 9 'Reflect and Record'

'Talk the Talk' selling your product idea to others.

You will be asked to present your ideas (no more than 2 minutes). Use the space below to plan what you will say. Think about your brief, specification and key factors of your design.

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## 10 'Green Zone'

Record any suggestions made by others in your group.

Modifications you could make.

## 11 'Question Time'

- 1 What does your design do?
- 2 What would you like your design to do?
- 3 How could your design become environmentally friendly?
- 4 How does your design appeal to the user group?

Additional space



## 12 'Your Model'

List the materials/ingredients you have chosen to make your prototype.

| Component description | Materials/ingredients |
|-----------------------|-----------------------|
|                       |                       |
|                       |                       |
|                       |                       |
|                       |                       |
|                       |                       |
|                       |                       |
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How could these components be joined/combined together?

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How could CAM or other electronic devices help you make your prototype?

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## 13 Action plan for Session 2.

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## Session 2

Welcome back. In the space (Box 14 on page 7) please record any further thoughts that you have had since Session 1 about your product.

## 15 'Go make'

You have 40 minutes construction time.

### Progress report 1

Problems I have come up against so far.

Possible solutions.

## 16 'Go make'

You have 40 minutes construction time.

### Progress report 2

Did the above work? Why?

Which areas have been successful so far?

## 17 Plan what you will be doing/making for the final 40 minutes of construction time.

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## 'Go make'

You have a final 40 minutes construction time.

Additional space