

**June 2013**

**GCSE DESIGN AND TECHNOLOGY PRODUCT DESIGN**

**A552/TS** Designing and Making Innovation Challenge

**TASK SHEET**

**To be opened on the day of the examination  
between 1 May 2013 and 22 June 2013**



**INSTRUCTIONS TO CANDIDATES**

You will have 6 hours in two 3 hour sessions plus 30 minutes to reflect on design ideas, to complete the examination.

At the end of the examination you must have:

- selected **one** of the challenges detailed on this task sheet;
- completed a workbook showing your creative thinking and how your idea works;
- produced a **model/prototype** to show the important features of your design;
- at least **four** photographs fixed in your workbook showing your modelling, trialling and prototyping activities;
- completed the 'Reflection' section of the workbook between 24 and 72 hours after the completion of the challenge.

**INFORMATION FOR CANDIDATES**

- This document consists of **2** pages. Any blank pages are indicated.

**INSTRUCTION TO EXAMS OFFICER/INVIGILATOR**

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## Seaside Visits

### **Situation:**

As part of their summer holiday many families enjoy spending time at the seaside. During a day at the seaside a family might want to:

- Sunbathe
- Swim
- Sit in the shade
- Keep out of the wind
- Eat and drink
- Play
- Visit attractions

From the lists of challenges below select **one** challenge for which you will design and make a model/prototype solution.

### Challenge 1 'Boat Ride Promotion'

The Pirate boat ride operates from the beach throughout the day. To attract more customers the boat ride company requires a method of promotion. The promotion must have a three dimensional (3D) element.

### Challenge 2 'Beach Barbeque'

Barbeques for use by visitors to the beach have been provided by the beach resort. 'Cook it yourself' meal packs are to be sold to people wishing to use the barbeques. A 'healthy' beach themed meal pack is required.

### Challenge 3 'Beach Entertainment'

Puppet shows are a traditional method of entertaining children whilst at the beach. The owner of the puppet show wishes to sell souvenirs to children who attend the puppet show. A souvenir is required.

### Challenge 4 'Minimising Waste'

During the busy summer period waste bins can quickly fill up. The beach resort wishes to minimise the frequency of the waste collection service. A method of encouraging beach users to sort and compact their waste is required.

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