

January 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 10 January 2013 and 25 January 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 **4** 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 'Seaside Art Kit'

The seaside resort offers children's activity sessions on days when the weather is poor. An 'assemble and decorate' art kit is required. The kit should be based upon the 'seaside' theme and allow the manufacture of a three dimensional (3D) artefact.

Challenge 2 'Seaside Snack'

Many of the snack foods that are available at seaside resorts are high in fat and sugar. In order to encourage healthy eating a promotional event is to be held at the beach. A healthy 'seaside' themed snack that would appeal to children is required.

Challenge 3 'Beach Equipment'

Items commonly taken to the beach include:

- Music system/MP3 Player
- Sun cream
- Beach Towel
- Sun lounger
- Money
- Sunglasses
- Beach Toys/Games
- Sports Equipment

A method of carrying these items or reducing the number of items to be carried is required.

Challenge 4 'Temporary Shelter'

People using the beach may require shelter to allow privacy from other beach users and to protect them from rain, wind and sun.

A temporary shelter is required.

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