



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

- Do not send this task sheet for marking; it should be retained in the centre or recycled. Please contact OCR Copyright should you wish to re-use this document.

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.

BLANK 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 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.