

June 2012

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 2012 and 22 June 2012**



INSTRUCTIONS TO CANDIDATES

You will have a total of 6 hours to complete the examination. This is normally 2 × 3 hour sessions plus 30 min reflection session.

At the end of the examination you must have:

- selected **one** of the challenges detailed on this paper;
- completed an answer booklet 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 at some time between 24 and 72 hours after 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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Summer Holiday Entertainment

Situation:

Entertaining children during the school summer holidays can be problematic for parents. The local council have organised a 'picnic in the park' event for children between the ages of 5 and 11 years.

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

Challenge 1 'Picnic Carrier'

Snacks and drinks are to be provided to the children attending the event. A product that will allow children to carry food and drink throughout the day is required.

Challenge 2 'Edible Trophy'

Children attending the event are to take part in a 'three legged race'. An edible trophy is required for the winning team.

Challenge 3 'Lost Children'

Children are allocated to teams that are supervised by an adult play leader. A visual method that allows lost children to be reunited with their play leader is required.

Challenge 4 'Waste Recycling'

Large amounts of waste will be generated during the day. A system to encourage children to dispose and recycle this waste is required.

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