

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GENERAL CERTIFICATE OF SECONDARY EDUCATION**

A552/TS

DESIGN AND TECHNOLOGY

PRODUCT DESIGN

Designing and Making Innovation Challenge

TASK SHEET

JUNE 2011

**To be opened on the day of the examination
between 1 May 2011 and 23 June 2011**

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

READ INSTRUCTIONS OVERLEAF

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.**

INSTRUCTION TO EXAMS OFFICER / INVIGILATOR

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THEME PARK VISITS

SITUATION:

The 'OCR Jungle' theme park offers a range of activities to suit all ages and provides shops and restaurant areas.

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

Challenge 1 'Promotional Material'

The theme park is to be promoted using material that could be sent by post. The promotional material should incorporate a three dimensional (3D) element.

Challenge 2 'Healthy Jungle Eating'

The theme park wishes to sell a 'make at home' food product in its gift store. The product should be based upon the jungle theme.

Challenge 3 'Dressing Up Fun'

The theme park stage show, 'Jungle Mystery', encourages children to participate in the performance. Costumes or props are required.

Challenge 4 'Height Checking Device'

Theme park rides have height restrictions for safety reasons. A method of checking heights of 0.9, 1.2 and 1.4 metres is required. The method used must be adjustable and operated by children.

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