

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

A552/TS

**DESIGN AND TECHNOLOGY
PRODUCT DESIGN**

Designing and Making Innovation Challenge

TASK SHEET

JANUARY 2011

**TO BE OPENED ON THE DAY OF THE EXAMINATION
BETWEEN 10 JANUARY 2011 AND 25 JANUARY 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

- **Do not send this insert for marking; it should be retained in the centre or destroyed.**

BLANK PAGE

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 'Event Promotion'

Throughout the day special events such as clown performances and face painting are held to entertain young children. A three dimensional (3D) method of promoting these special events is required.

Challenge 2 'Healthy Jungle Eating'

The theme park is aiming to encourage healthy eating. They wish to sell a children's meal pack. The pack should be based upon a 'jungle animals' theme.

Challenge 3 'Staff Uniform'

Theme park staff undertake different roles during the day. Job roles include car park management, security, ride supervision and shop work. A uniform is required for the theme park staff. The uniform must indicate the person's job role and allow the job role to be easily changed.

Challenge 4 'Interactive Play Equipment'

The theme park's play area for children under the age of 5 requires a new piece of 'interactive' play equipment.

BLANK PAGE

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.