

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS  
GCSE**

**A552/TS**

**DESIGN AND TECHNOLOGY  
PRODUCT DESIGN**

**Designing and Making Innovation  
Challenge**

**TASK SHEET**

**To be opened on the day of the examination  
between 1 April 2014 and 21 June 2014**

**MODIFIED ENLARGED**

**READ INSTRUCTIONS OVERLEAF**

## **INSTRUCTIONS TO CANDIDATES**

**You will have 6 hours in two 3 hour sessions plus 30 minutes plus your additional time allowance 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**

**Any blank pages are indicated.**

## **INSTRUCTION TO EXAMS OFFICER/INVIGILATOR**

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## **ADVENTURE BREAKS AND ACTIVITIES**

### **SITUATION:**

**OCR Adventure Breaks is an outdoor adventure activity company providing a range of activities for individuals, families, school and community groups. The company provide activities including:**

**climbing  
abseiling  
canoeing  
white water rafting  
bush craft and survival  
mountain biking  
paintballing.**

**From the list of challenges below select ONE challenge for which you will design and make a model/prototype solution.**

### **CHALLENGE 1 ‘PROMOTIONAL MATERIAL’**

**There are many companies offering similar activity breaks. OCR Adventure Breaks requires three dimensional (3D) promotional material that will make them more appealing than other adventure companies. The promotional material will be displayed at places such as youth clubs, schools and community centres.**

### **CHALLENGE 2 ‘CAMPING FOOD’**

**Participants in overnight activities require a healthy and balanced hot meal. A meal kit is to be provided. The meal should be easily carried and cooked by the individual undertaking the activity.**

### **CHALLENGE 3 ‘OVERNIGHT SHELTER’**

**A portable shelter is required for use by individuals undertaking the bush craft and survival overnight activity. The shelter should be easily carried.**

### **CHALLENGE 4 ‘DAY BAG’**

**Each individual taking part in the adventure activities will be given a day bag to use to carry their essential equipment such as food, water, first aid, and spare clothing. A suitable day bag is required.**



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