

# OCR

Oxford Cambridge and RSA

**To be opened on the day of the examination  
between 3 April 2017 and 21 June 2017**

**GCSE DESIGN AND TECHNOLOGY Product Design**

**A552/01/TS** Designing and Making Innovation Challenge

**TASK SHEET**

**JUNE 2017**



## **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 **2** pages. Any blank pages are indicated.

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

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## Pre-school Playgroup and Early Learning

### **Situation:**

Cleverclogs pre-school playgroup provides care for children under five years old. The playgroup organises activities which are both educational and fun, where children learn through play.

The playgroup activities include drawing and painting, model making, food preparation and tasting, social play, physical games, singing and role play, story time and also quiet time.

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

### **Challenge 1 ‘Flat Pack Fun Activity’**

Cleverclogs requires a three dimensional (3D) flat pack display that can be quickly assembled when required. Children will use the display, in a fun activity, to measure height, waist, arm length and shoe sizes.

### **Challenge 2 ‘Healthy Snack’**

It is important for pre-school children to eat healthily. Cleverclogs wants to provide a mid-morning snack for the children. The snack must be healthy, easy to distribute to the children and not require any cutlery or plates.

### **Challenge 3 ‘Messy Play’**

Protective clothing is required for the children involved in ‘messy play’ during painting and model making activities. The protective clothing must be capable of fitting playgroup children of different heights and protecting their own clothing from mess and damage.

### **Challenge 4 ‘Educational Toy’**

A toy is needed to encourage pre-school children to learn the basic colours, shapes and numbers. The toy must be fun to play with and be suitable for use on a low table or on the floor.



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