

# OCR

Oxford Cambridge and RSA

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**GCSE DESIGN AND TECHNOLOGY Product Design**

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

**PRE-RELEASE INSTRUCTIONS FOR TEACHERS**

**JUNE 2018**



## **INSTRUCTIONS TO TEACHERS**

- The information contained within this pre-release material is designed to allow centres to carry out the following tasks:
  - Assemble a handling collection linked to the situation. The ‘handling collection’ may consist of existing products, pictures or video that are linked to the situation.
  - Assemble an ‘inspirational table’ which shows examples of products with interesting features or capabilities. These may not necessarily be linked to the situation.
  - Develop a range of modelling/prototyping materials that will be suitable for the given situation. The structure of the examination allows staff/candidates to obtain additional materials/ingredients between session one and two if required.
- OCR places **no** restrictions on the nature of the handling collection provided to the candidates. It is essential, however, that the items, whilst being appropriate, **are not**, by their very nature, suitable for copying by the candidates in order to provide a workable solution to the challenge.
- On the day of the examination four separate ‘challenges’ will be given to the candidates. The candidates will select **one** ‘challenge’ to respond to.
- Please read this document (IT) in conjunction with the Teachers Notes **A552/01/TN**.
- This document consists of **4** pages. Any blank pages are indicated.

The Designing and Making Innovation Challenge is a teacher-led activity that stimulates and supports the candidate through a thought-provoking creative exercise.

The activity is designed to take place in a design room, studio or workshop (not the centre's examination hall). The candidates are encouraged to take risks, be innovative, take advice from others through controlled and structured peer evaluation and use resources effectively and efficiently.

Candidates have a choice of four different challenges.

Each of these challenges will have a different focus and will require the use of appropriate modelling materials. If, for example, a food focus is chosen then the facilities provided will be obviously different to those provided for a challenge based around the use of resistant materials. It is advisable, therefore, to provide different working environments for each challenge. Full instructions concerning the conduct and pace for running this unit in a centre are provided in the document titled Teachers Notes supplied with this document.

The centre is asked to provide a 'handling collection', which may consist of existing products or pictures, video or any other items relating to the situation. In addition an 'inspirational table' which shows examples of products with interesting features or capabilities is required. Throughout the challenge, candidates are asked to record and communicate their thinking on a pre-printed, A4-size workbook supplied by OCR. Candidates respond to the prompts in pre-numbered boxes.

Midway through session 1, candidates have the opportunity to present their ideas to a group of between three and four other candidates. Candidates are encouraged to take advice from others through this controlled and structured peer evaluation.

Candidates model their most creative and exciting idea using a range of easy-to-handle materials. Depending upon the chosen challenge, candidates choose from paper, card, thin plastics, thin sections of wood, fabric, wire, foil, thin metal sheet, clay, polymorph, foam board, food ingredients, components, gaffer tape and other suitable materials, joining methods and devices.

Marks are awarded for the design concept and the way in which the candidate has resourcefully used materials and construction techniques. Four digital photographs must be taken at specified times by the teacher or teaching and learning assistant to record individual progress. These must be processed and attached to each candidate's workbook during the challenge.

Although prototype models are **not** required to be sent with the candidate workbooks to the examiner, they should be retained as they may be required for monitoring purposes.

During the period 24 hours after the completion of session 2 and within 72 hours candidates must complete the reflection activity within the workbook.

Workbooks must be stored securely by the examination officer between each session. Completed workbooks must be dispatched by the examinations officer to the appointed OCR examiner using the approved secure postal system.

The centre must complete form VAF/619 (available on the OCR website) and return this to OCR by March 1st for June examination sessions.

### Community Centre Summer Festival

**Situation:**

Falton community centre holds a week long summer festival every year to bring the local community together, giving them a chance to celebrate the heritage of their town. This enriches the sense of belonging to the community, giving an opportunity for everyone to exchange stories and have fun.

Adults and children can enjoy the daily events involving games, food, film and drama. The community centre has indoor and outdoor areas where the events can be held.

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