

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 answer booklet 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 answer booklet during the challenge.

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

During the period 24 hours after and within 72 hours of the completion of the session 2 candidates have the opportunity to reflect on the challenge by completing a section in the answer booklet.

Theme Park Visits

Situation:

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

Four separate challenges will be provided on the day of the examination. Candidates will need to select **one** challenge to respond to.

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