



The Thomas Hardy School

Summer Preparation Task

3D Product Design A Level
AQA 7552

Purpose of task:

Design a prototype mobile device stand. Communicate your design in CAD, card or a material of your choice

Task:

Tablets and mobile devices are often used for reading instructions when completing a given task. Tasks could range from completing a recipe to fixing a washing machine. You must design a stand to securely hold a mobile device allowing the user to refer to the device whilst carrying out a task.

Specification

The stand must:

- sit on a desk, be free standing and compact,
- hold the mobile device securely at an angle of 10 degrees from vertical,
- allow access to the buttons,
- must not block the user's view of the screen.

You must show:

- details needed to satisfy the specification,
- clear details of specific materials and method construction,
- processes used to make the stand.

Draw a range of design ideas for your stand (6 or more ideas), use annotation and colour to communicate your designs.

Manufacture or present or a final prototype of your design using CAD, card or a material of your choice.

Recommended resources:

The following research methods will help you complete the task.

Observations and visits -Visit a shop where mobile device stands are sold. Look at the stands and learn about their design.

Ethnographic study-Use an existing mobile device stands to identify good/bad points of existing designs.

Product analysis -Look at existing mobile device stands to learn about their design.

Deadline for Task: First lesson in week commencing 16th September 2024

Required Stationery and Equipment 3D Product Design A Level

A3 layout pad
2H/HB pencils
pencil sharpener
fine line pen
marker render pens – promarker pens
A3 plastic carry folder
A3 flip folder

Essential Resources

Essential resource: AQA AS and A-level Design and Technology: Product Design: ISBN 978-1-5104-1408-2

Things to Consider Throughout the Year

Students will be involved in a range of different activities throughout the year. They will need to organise their notes and keep them safe to revisit and revise. As part of the course students will complete extensive design projects. Students will have to meet a number of deadlines to achieve this. Students will have to identify a need, research the market and design and develop a solution. Students will finally manufacture and evaluate their chosen product. In most cases students are expected to pay for the materials they use which can be expensive depending on type and sizes required. Students will be expected to use mathematics within their work.

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