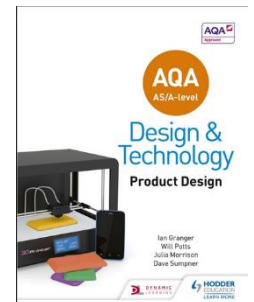


A level Product Design Bridging Work.

Resources required for September

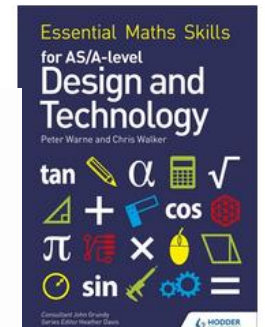
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Essential Maths Skills for AS/A Level Design and Technology

ISBN: 9781510417069



A4 ring folder. Set of Dividers.

Cotton apron.

Calculator, Stationary set, Coloured pencil crayons,
Memory Stick (desirable)

1. Design Task

Products that are sold in (high street shops, internet shops or mail order) are generally designed for the mass market. This alienates sections of the market for example people with a disability or elderly users.

Your design problem is to develop and improve **one** of the products below for users who may have a particular disability. You need to first analyse the various disabilities that would affect the use of the product.

Then show through annotated sketches a variety of initial ideas of how the actual jug kettle could be developed for a particular disability and then develop each one to fine tune the initial design so that the design will assist the disabled user in its use.

For this task, you will have to think about shape, form, texture, material choice, colour and size, together with other constraints that may have to be consider. The more you can annotate to show your reasoning in your design the higher your ability will be assessed.



Cutlery, cups, dinner wear



Controllers/phones



Bottles, jars, containers



Kettle

Produce at least 4 designs that are labelled and annotated.

Fully develop one design to a final presentation that is evaluated.

Communication methods to explore

Thumbnail sketching

Rendering and enhancement

Isometric drawing

Exploded views

Sectional views

You must include 3 of these

2. Product Design Research Task

a) Research and define the key terms below. Give specific applications to show what they could be used for. Explain the useful properties and characteristics they have.

Key terms:-

- Renewable - sustainable - Corn Starch --
- Biodegradable -
- Oxo-degradable
- Water-soluble (Lactel – eco film)
- Polyhydroxyalkanoate (PHA)
- Polylactide (PLA)
- Potatopak
- Biopol

Examiners Tip

You need to be able to identify different materials and their main characteristics.

You need to give reasons why certain materials have been used for particular applications.

3. Download the Rushcliffe Super Curriculum App and broaden your understanding on **Product Design**. See instructions below.

You can download for Apple devices here:
<https://apps.apple.com/app/id1560629360>



You can download for Android devices here:
<https://play.google.com/store/apps/details?id=com.AppInstitute.u70c2>

Select one activity to do from the Product Design Section. There are lots of different types of activities to choose from.

After, reflect on the activity and then summarise the most important, interesting or useful things you gained from the activity. How could it benefit another user?

Be prepared to share this with your class – You could do this on paper, a PowerPoint, Discussion.