

Product Design A Level Preparation

Detail of examinations

The A level Product Design course is made up of 2 components. It is a 2 year course
Component 1 – 2 Written paper – 2.5 hours Technical principles 1.5 hours Design principles – 200marks – 50%
Component 2 – Design and make project – 80 hours 100 marks – 50%

Areas of study

- Designing and innovation
- Materials and components
- Processes
- Industrial and commercial practice
- Product analysis and systems
- Human responsibility
- Public interaction – marketing and research

Links to maths

- Confident use of number and percentages
- Use of ratios
- Calculation of surface areas and/or volumes
- Use of trigonometry
- Construction, use and/or analysis of graphs and charts
- Use of coordinates and geometry
- Use of statistics and probability as a measure of likelihood

Research and preparation activities

Design and technology resources to read through in preparation for the A level course, can be used at any time throughout the course to support learning.

<https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552>

Although widely used at GCSE this student resource is still a valuable resource for A Level

<https://www.technologystudent.com/>

Dieter Rams – Design Principles

<https://www.youtube.com/watch?v=epEWrycjNXc>

The Toyota Product System

https://www.youtube.com/watch?v=cY_Old9bLhY

How its made videos

<https://www.youtube.com/channel/UCNAUoDS2SihRhVI-dyqj2yA>

Sketching skills development

<https://www.youtube.com/watch?v=L2XacZjBEL4>

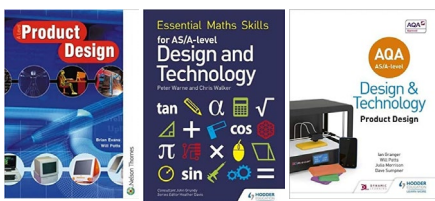
BIC Pens

<https://www.youtube.com/watch?v=I-1p9H6FuTo>

Further reading

Great list of Design Books

<https://www.shopify.co.uk/partners/bl/og/design-books>



Fun and engaging

Product Design – Product Analysis

<https://www.youtube.com/watch?v=DL4BmtoKReg&t=373s>

https://www.youtube.com/watch?v=J_8lbSsB-Q

<https://www.youtube.com/watch?v=u13DMIF1KME>

<https://www.youtube.com/watch?v=siwF67yUXM0>

<https://www.youtube.com/watch?v=wHfNboh81k8>

<https://www.youtube.com/watch?v=GzbEHCZwgPE>

