

A-Level Summer assignment

Part A)

Answer **five** questions from this section.

Your answers should be substantial and show the **depth** of your knowledge in Product Design.

1. Global manufacturing continues to expand in order to meet the needs of consumers. Discuss the advantages and disadvantages of global manufacturing for the designer and manufacturer. [30]
2. Fashion, style and trends are important factors in the development of products, such as the continuous development of mobile technology. Discuss this statement in relation to a **different** product or range of products. [30]
3. Product designers consider aesthetics, function, maintenance, cost and disposal when developing products for mass production. Discuss the implications of this statement in relation to named products. [30]
4. *Successful designers create products using their understanding of technology, production methods and market needs.* Discuss the validity of this statement in relation to a specific product or range of products. [30]
5. Getting the right material or component delivered at the right time is essential for an efficient and economic production line. Describe how this is achieved and its advantages to the manufacturer. [30]
6. When designing products, designers consider the implications of:
(a) Materials selection.
(b) Product disposal.
Discuss the importance of these areas in relation to product design. [30]
7. The key input of the product champion and the entrepreneur are essential to the development of innovative products. Discuss the role of a product champion and an entrepreneur in ensuring the development and success of a product or range of products. [30]
8. Designers and manufacturers have to consider manufacturing methods, product life and environmental factors when designing and manufacturing products. Discuss all the elements of the above statement with reference to named products. [30]
9. The design and manufacture of products increasingly involves research and design development being undertaken in one location and manufacturing in another. Discuss the advantages and disadvantages of this form of product development to the designer, manufacturer and the consumer. [30]
10. With reference to a specific product, describe how it has developed and improved over a period of time through changes in its design, developments in materials and manufacturing methods. [30]
11. Discuss how the use of a specific modern material has influenced both the design and manufacture of named products. [30]
12. *'Design is not just what something looks like and feels like. Design is how it works.'*
Discuss this statement in relation to a number of products in everyday use. [30]

Part B) You need to research a design period and create a powerpoint presentation to present to your class in September.

Choose one of the design periods below:

Design periods

- a) *Modernism*
- b) *Post Modernism*
- c) *Contemporary*

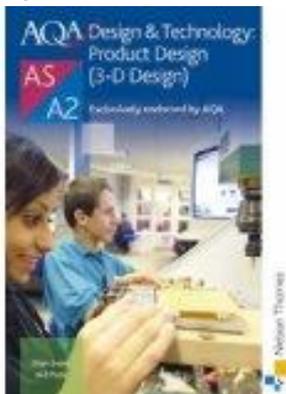
Your powerpoint needs to include:

1. An explanation of the main influences that the design period has had on the design and style of products during that period and give examples
2. The name of a designer from that period
3. You need to draw an example of their work and label the key design points
4. An explanation of how the design has been influenced by the particular design style of the period making reference to aesthetics and the function of the product.

Textbook/ Revision Guide

AQA Design & Technology: Product Design (3-D Design) AS/A2 (Aqa Design for a Level)

by Will Potts and Brian Evans (12 May 2008)



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Cost is £24 + p&p or through Amazon books and used copies are available for £8-£10 .

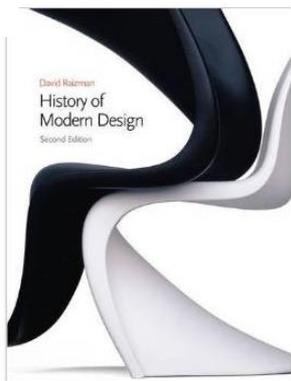
History of Modern Design

by [David Raizman](#) (Author)

King; 2 edition (9 Aug. 2010)

[1856696944](#)

from Amazon



- Publisher: Laurence
- ISBN-13: [978-](#)
- Cost is £20 paperback

Websites

www.technologystudent.com

Design and Technology GCE AS/A - WJEC

www.wjec.co.uk/qualifications/design.../design-and-technology-gce-a-as/

A'LEVEL PRODUCT DESIGN (3D DESIGN) - RESOURCES ...

<https://www.tes.co.uk/.../a-level-product-design-3d-design--resources-6081...>

Example Work - AS Product Design Coursework

www.youtube.com/watch?v=a63KdjoXfy8

Computer Aided Design

It is also strongly recommend that you install ProDeskTop v8 on your computer at home or subscribe to a free educational version of Autodesk Inventor. Unfortunately ProDeskTop v8 it is not compatible with Vista but works with Windows 7. Google Sketch Up can be used but it is not as versatile as Prodesktop.