



## **Design and Technology – Product Design Reading List**

Students will be able to recognise design needs and develop an understanding of how current global issues, including integrating technology, impacts on today's world.

Download the specification:

<https://qualifications.pearson.com/content/dam/pdf/A%20Level/Design%20and%20Technology%20-%20Product%20Design/2017/specification-and-sample-assessments/Specification-GCE-L3-A-level-in-Design-and-Technology.pdf>

As the course is now under the heading of Design and Technology students will be expected to understand the combined discipline of Graphical products and Resistant Materials.

In preparation for the course students will need to be able to evaluate designers and design from the past and present. Below is a list of the designers. You will need to produce a presentation on all of the design movements. With a detailed discussion on one key piece of their work. For each design movement one page on the design movement and an additional page on an iconic piece of work from the main protagonist of the design movement.

Design theory through the influences and methods of the following key historical movements and figures:

- a) Arts and Crafts – William Morris
- b) Art Nouveau – Charles Rennie Mackintosh
- c) Bauhaus Modernist – Marianne Brandt
- d) Art Deco – Eileen Gray
- e) Post Modernism – Philippe Starck
- f) Streamlining – Raymond Lowey
- g) Memphis – Ettore Sottsass.

Understanding Materials and manufacturing techniques is a key part of the A level course. Below is a list of the categories of materials you will need to study in detail:

- Metals
- Polymers
- Woods
- Manufactured Boards
- Smart and Modern materials
- Papers and Boards
- Natural and synthetic fabric

When looking at the Edexcel website down load the mapping document which can be found here:

<https://qualifications.pearson.com/content/dam/pdf/A%20Level/Design%20and%20Technology%20-%20Product%20Design/2017/Teaching%20and%20learning%20materials/mapping-document-pearson-to-pearson.pdf>

There are page references from the two books we will be using as part of the course. Start to create a database of materials. The focus must be on Properties, availability, advantages and disadvantages, common uses and links with appropriate manufacturing techniques