



North Halifax Grammar School – A Level Transition Work

A level Design Technology: Product Design

Specification

AQA GCE DT: Product Design

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

The course is divided into the following 3 assessments

Paper 1: Technical Principles 30% A Level

Paper 2: Design and Make Principles 20% A Level

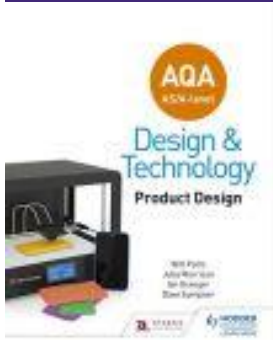
NEA Task: Practical application of technical and design and make principles 50% A Level

Course Overview

Year 1 Subject Content	Year 2 Subject Content
<ul style="list-style-type: none">• Technical Principles 3.1• Design and Make Principles 3.2 (practice skills-based projects)• DMP 3.2 start actual NEA Task	<ul style="list-style-type: none">• Technical Principles 3.1• Design and Make Principles 3.2 (actual NEA Task)

Essential Reading / Revision

[AS and A-level Design and Technology: Product Design](#)



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Transition work for Design Technology A level students

1. List the different types under the 5 main material categories below:
 - a. *Timber*
 - b. *Metals*
 - c. *Plastics/Polymers*
 - d. *Paper & Board*
 - e. *New Materials*
2. Define what is meant by thermoplastic material.
3. Define what is meant by thermosetting material.
4. Define what is meant by an elastomer material.
5. Research a common set of thermosets by listing their:
 - a. Name
 - b. Characteristics
 - c. Common Names
6. Research a common set of thermoplastics by listing their:
 - a) Name
 - b) Characteristics
 - c) Common Names
7. Define the difference between softwoods, hardwoods and manufactured woods.
8. List the different types of timber under the following headings:
 - a) Softwood
 - b) Hardwood
 - c) Manufactured wood



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9.



Task 1:

- Conduct a product analysis of this chair, or a similar timber chair using ACCESSFMM. (aesthetics, cost, consumer, environment, safety, size, function, materials and manufacture)
- Present your findings with an image in the middle of the page.
- Pay special attention to the manufacturing & materials.

Task 2

- Write a paragraph explaining how this product would be 'batch manufactured' (making between 1 & 10,000 of the product in batches')

Relevant questions

- What paints and finishes have been used on the timber?
- How are the legs attached to the seat base?

10. Define the difference between a ferrous and non-ferrous metal.

11. Define an alloy metal.

12. Research a common set of non-ferrous metals by listing their:

- a) Name
- b) Characteristics
- c) Uses

13. Research a common set of ferrous metals by listing their:

- a) Name
- b) Characteristics
- c) Uses