



Chenderit School
A VISUAL ARTS COLLEGE

Flying Start 2019

Design and Technology:

Product Design

AQA 7552

Contents:

- Introduction to the course
- Non Examined Assessment
- Assessments
- Research Task
- Resources

Name Tutor Group 12.....

Introduction to the course:

In Product Design you are expected to take a broad view of Design and Technology; to develop your capacity to design and make products and to appreciate the complex relations between design, materials, manufacture and marketing.

You should be reading the 'Designing' magazine – new ones each term.

Over the next two years in A level Product Design you will be studying and learning the following;

Technical principles

- Materials and their application
- Enhancement of materials
- Forming, redistribution and addition processes
- The use of adhesives and fixings
- The use of finishes
- Modern industrial and commercial practice
- Digital design and manufacture
- The requirements for product and development
- Health and safety
- Protecting designs and intellectual property
- Design for manufacturing, repair and disposal
- Feasibility studies
- Enterprises and marketing in the development of products
- Design communication
- Modern manufacturing systems

Design and making principles

- Design methods and processes
- Design theory
- How technology cultural changes can impact on the work of designers
- Design processes
- Critical analysis and evaluation
- Selecting appropriate tools, equipment and processes
- Accuracy in design and manufacture
- Responsible design
- Design for manufacture and project management
- National and international standards in product design

The course isn't just 5 hours a week in school – you need to devote at least a further 5 hours weekly of your own study time – in depth reading / revising / designing / extending your practical skills and enjoying being a Design and Technology student

Non Examined Assessment (NEA)

During you're A level you will be expected to complete a design and make project based on the development of a set contextual design brief – set by AQA. This will result in you producing a full design portfolio to justify the physical product you manufacture.

To be successful you will focus on the typical skills within the subject of design and manufacturing techniques, but you will also need to realise the depth of skills that you will need to use and develop to the expected standard.

- **Research**
The definition of research includes any gathering of data, information and facts for the advancement of knowledge, which will be a large part of the non examined assessment as this is the main way to justify and explain decisions for your manufacturing
- **Observational**
You are regularly using observational skills within the subject especially when working practically as you will regularly use visual checks to ensure accuracy and quality. You will also need to observe products, materials and manufacturing processes to assess their features, style, properties and suitability.
- **Analysis**
Analysis examines something methodically and in detail, typically in order to explain and interpret it. Due to the large range of research you will need to conduct for a good quality project the research will then need to be analysed to conclude what you have learnt and how this will justify your decisions.
- **Communication**
You will need to present your ideas graphically and in written text throughout your design portfolio, so it will be imperative that your spelling, punctuation and grammar is of a good standard
- **Presentational**
Your design portfolio is a folder that will be presented to show your skills and abilities therefore you must ensure it is well presented and fully explains your ideas and abilities
- **Time Management**

The design process is a linear process and therefore you cannot move on without doing the previous parts - therefore it is key that you keep on task with work and meet deadlines to ensure you have the correct time for each process in order to be successful.

Examination Assessments

<u>Paper 1</u>	Technical principles	2.5 hour Written exam 120 marks 30% of A level
<u>Paper 2</u>	Designing and making principles	1.5 hour Written exam 80 Marks 20% of A level
<u>NEA</u>	Practical application of technical principles, designing and making	Substantial design and make project 100 marks 50% of A level

Research Task

Research is a key part to your NEA and is important that you have a grasp and understanding of how technology and products have developed through time to give you a greater appreciation of design and manufacturing.

TASK:

Choose one time period from the list below and investigate it thoroughly. Use your research to write a report which is word processed and a minimum of 1500 words in length.

Your report should focus on the major product design innovations and be set against the social and political background of the chosen time period. Include all major designers and their influences with reference to any art/design movements that they belonged to. Use images to support the text but only use where relevant.

Time Periods:

1. 1750 – 1850 ›› Early Design History.
2. 1830 – 1880 ›› The Industrial Revolution.
3. 1850 – 1914 ›› Reform Movements.
4. 1890 – 1914 ›› The Road to Modernism.
5. 1915 – 1933 ›› Revolution and the Avant-Garde.
6. 1925 – 1945 ›› Luxury and Power.
7. 1945 – 1960 ›› The Economic Miracle.
8. 1954 – 1968 ›› Good Form and Bel Design.
9. 1965 – 1976 ›› Experimentation and Anti-Design.
10. 1968 – 2010 ›› Postmodernism and the Future.

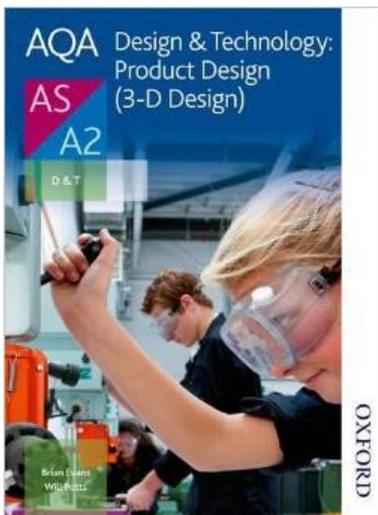
This report will be expected to be handed in the first lesson in September and will be part of your base line test which will assess your previous skills and abilities

N.B.

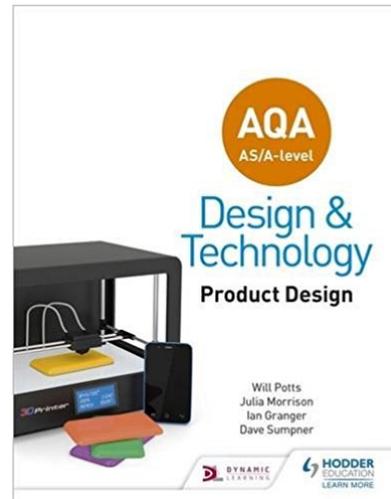
Consider the quality of the report you hand in as once it has been marked it will photocopied and distributed to all other students in the group. This way everybody will have a copy of each other's report and an overview of the history of design

Resources

Advised text books to acquire to help with revision and examination preparation



ISBN 0748782575



ISBN 978-1510414082

www.technologystudent.com/

<http://www.design-technology.info/home>

<http://www.mr-dt.com/>