

Subject	Year	Specialism
Design and Technology	Year 13	Product Design

Project

A Level Exam Preparation

Content (Intent)

Prior Learning: KS4 Theory – Y12 and Y13 Mock Exam prep

Important – this content is taught throughout the 2 year A level course in timetabled theory lessons. It is then revised once the NEA project is completed.

Technical Principles content includes:

- Adhesives
- Biodegradable Polymers
- Classification of materials
- Composites
- Design communication
- Design for manufacturing, maintenance, repair and disposal
- Digital design and manufacture
- Enhancements of materials
- Enterprise and marketing
- Feasibility studies
- Health and safety

- Materials and their applications
- Metal processes
- Metals
- Methods for investigating and testing materials
- Modern industrial and commercial practice
- Modern materials
- Paper and board processes
- Papers and boards
- Polymer processes
- Polymer-based sheet and film
- Polymers
- Protecting designs and intellectual property
- Smart materials
- The requirements for product design and development
- The use of finishes
- Wood processes
- Woods

Future Learning – A Level Summer Exams – Degree and apprenticeship knowledge

How will knowledge and skills be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
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To teach the content the following strategies are used:

- Teacher led lesson content
- Independent learning tasks
- Group discussion/debates and questioning
- Using product design terminology
- Reference to design examples throughout

Assessment

- End of topic assessment
- Past Paper responses and essays. Marked and feedback given.
- Verbal responses. Individual and class feedback given.
- Key term tests

How can parents help at home?

- Discussing ideas and content at home & linking it to products that they know
- Watch any topical films or documentaries that link to design

Helpful further reading/discussion (including Reading and Vocabulary Lists)

<p>Reading</p> <p>A Level AQA Revision Notes Text Book Balcarras Product Design Pages Mrs Swanepoel YouTube Revision Videos https://www.technologystudent.com/</p>	<p>Vocabulary</p> <p>A huge amount of subject specific vocabulary could be listed here!</p> <p>Please check out the AQA A Level Product Design spec and the VLE pages for lists ☺</p>	<p>Careers Links</p> <p>Product Design Graphic Design Furniture Design Careers in Engineering (Design Engineering, Mechanical Engineering Project Management Art and Design careers</p>
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