

Year 14 Technology and Design – Product Design

SUBJECT	A Level Technology and Design – Product Design
<u>Examination Unit Title</u>	Paper 1 – Technical principles Paper 2 – Designing and making principles
<u>Examination Board</u>	AQA
<u>Examination Date</u>	Paper 1 – Technical principles Monday 2 nd June (am) Paper 2 – Designing and making principles Tuesday 10 th June (am)
<u>Examination Length</u>	Paper 1 – 2 hours 30 min Paper 2 – 1 hour 30 min
<u>Marks available</u>	Paper 1 – 120 marks Paper 2 – 80 marks
<u>What learners need to know</u> <u>Topics to revise</u>	<p><u>Paper 1 – Technical principles</u></p> <ul style="list-style-type: none"> • Materials and their applications • Performance characteristics of materials • Enhancement of materials • Forming, redistribution and addition processes • The use of adhesives and fixings • The use of finishes • Modern industrial and commercial practice • Efficient use of materials • Digital design and manufacture • The requirements for product design and development • Health and safety • Protecting designs and intellectual property • Design for manufacturing, maintenance, repair and disposal • Feasibility studies • Enterprise and marketing in the development of products • Design communication <p><u>Paper 2 – Designing and making principles</u></p> <ul style="list-style-type: none"> • Design methods and processes • Design theory • How technology and cultural changes can impact on the work of designers. • Product life cycle • 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

<u>Specification</u>	https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552/specification-at-a-glance
<u>Departmental Resources to support revision</u>	<ul style="list-style-type: none"> - Topic Booklets - Revision Guides - Timed Essays - Homework Essays - Past Paper Questions and Mark Schemes
<u>External websites to support revision</u>	https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552
<u>Past Paper Questions and Mark Schemes</u>	https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-product-design-7552/assessment-resources?f.Resource+type%7C6=Question+papers