

Year 12 Exam Week Preparation

Year Group:	12
Subject:	Design and Technology

Details of exam

Paper to be sat:	Design and Technology (Product Design) Component 1
Topics to be covered in the exam:	<p>All materials covered to date.</p> <p>Performance characteristics and properties of materials.</p> <p>Processes and techniques used to manufacture. (Plastic processes, Heat treatment of metals. Finishing processes. Printing methods. Self-assembly fittings used on flat packed furniture)</p> <p>Drawing methods.</p> <p>Maths (areas of shapes, volumes, using angles, trigonometry, percentage, ratios)</p> <p>Design movements.</p> <p>Form and function of products</p> <p>User centred design</p> <p>Anthropometrics</p> <p>New technologies. Digital technologies.</p> <p>Product evaluation/analysis and user's needs.</p> <p>Levels of manufacture and the effect on employment</p> <p>Features of the manufacturing industry.</p>

Materials to support your revision

Link to Online Resources:	Focus software
Link to exemplar questions or past papers to use:	<p>Sample assessment used for the April exam. Similar style past papers can be found at the Edexcel website.</p> <p>https://qualifications.pearson.com/en/support/support-topics/exams/past-papers</p>
Link to model answers or mark schemes:	<p>The mark schemes for the mentioned similar style past papers can be found at the Edexcel website.</p> <p>https://qualifications.pearson.com/en/support/support-topics/exams/past-papers</p>
Recommended revision guides:	<p>Mr Revision notes – Pearson Edexcel A level Design and Technology (Product Design) David Sumpner and Julia Morrison (Hodder Education)</p> <p>Edexcel A Level Design and Technology for Product Design: Resistant Materials, 3rd edition Paperback – 17 Feb 2009 by Mr Jon Attwood (Editor), Mr Barry Lambert (Editor), Mr Peter Neal (Editor), Mr Geoff Hancock (Editor)</p> <p>A Level Design and Technology for Edexcel: Product Design: Paperback – 30 Sep 2008 by J Atwood (Author)</p> <p>Essential Maths skills for As/A-level Design and Technology by peter Warne and Chris Walker. (Hodder Education)</p>
In house booklets:	<p>Materials revision guide provided.</p> <p>Topic guide</p> <p>Maths guide</p>

For essay subjects and longer answer questions – suggested question titles for practice:

Evaluation question

You should be able to analyse a product in order to weigh up the potential benefits and disadvantages and give reasoned justification to qualify your judgements and conclusion.

Four mark categories are available. To achieve top marks (category 4) for this question you must be able to

- Apply a comprehensive understanding to deconstruct information and provides insightful connections between concepts throughout.
- Demonstrate a thorough and balanced evaluation that shows relevant understanding into a well-developed conclusion.
- Make judgements that are supported by pertinent evidence throughout.