

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, nets and interpreting drawings.</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>

<p>For essay subjects and longer answer questions – suggested question titles for practice:</p>	<p>Evaluation question</p> <p>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.</p> <p>Four mark categories are available. To achieve top marks (category 4) for this question you must be able to</p> <ul style="list-style-type: none"> • 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.
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