



REVISION GUIDE GCSE PRODUCT DESIGN MOCK.

March 2017

Mr. Hayes

| <p><u>Section A:</u> <u>Designing Question 1</u></p> | <p><u>Questions</u></p> |
|--|---|
| <p>You will be asked to Design a Card container</p> | <p>Can you write Design Criteria for Packaging?</p> <p>Can you design a Card Package?</p> <p>Can you design a Card package/box and draw it's: What is a 'Net'? What is a 'Development'?</p> <p>Do you know the manufacturing processes in the production of a full colour printed card package?</p> <p>Do you know how card is manufactured?</p> <p>Are you familiar with the symbols and their meanings that appear on packaging?</p> <p>After you have designed your Packaging, can you evaluate it against the Design Criteria?</p> <p>Revision Guide page: 24, 25, 32, 33</p> |
| <p><u>Paper and card manufacturing</u></p> | <p><u>Questions</u></p> |
| <p>Card and Paper manufacturing</p> <p>Printing techniques and Finishes</p> | <p>Card and Paper Manufacture: Describe how paper and card is manufactured from log to end product. What methods does a manufacturer use across the making cycle?</p> <p>Watch these clips: http://www.technologystudent.com/despro2/crdpap1.htm https://www.youtube.com/watch?v=7IP0Ch1Va44</p> <p>Printing Techniques and Finishes: Screen printing Laminating Flexography Embossing Dye sublimation Block Printing</p> <p>http://www.technologystudent.com/designpro/prtpro4.htm http://www.technologystudent.com/despro2/prneff3.htm</p> |

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| | <p>http://www.technologystudent.com/despro2/prneff4.htm http://www.technologystudent.com/prddes1/printpros1.html https://www.youtube.com/watch?v=QJwUExBPkrs https://www.youtube.com/watch?v=-5lehlK9NT4</p> <p>Revision Guide page:</p> |
| <u>Section B</u> <u>Question 2</u> | <u>Questions</u> |
| Will be about Materials | <p>Can you name 3 woods, 3 metals and 3 plastics? Do you know where they come from?</p> <p>Can you explain whether they are recyclable or sustainable?</p> <p>What do you know about 'Finishes'?</p> <p>Revision Guide page: 34, 35, 38, 39, 40, 41</p> |
| Stock Forms and Standard Components | <p>Can you describe what 'Stock Form' is? Can you explain the advantages to the manufacturer of 'Stock Forms'?</p> <p>Can you describe what 'Standard Components' are? Can you explain the advantages to the manufacturer of using 'Standard Components'?</p> <p>Revision Guide page: 58, 59</p> |
| <u>Question 3</u> | <u>Questions</u> |
| Product Evolution | <p>Can you explain the terms: Market Pull? Technology Push? Planned Obsolescence?</p> <p>Revision Guide page: 2, 3, 66</p> |
| <u>Question 4</u> | <u>Questions</u> |
| Product Marketing Packaging and the Environment | <p>Can you look at every day products (like a toaster) and identify: Different features on it, for example: Target market – who would buy it How it works – buttons, switches Access to the toast when toasted – how to use it safely?</p> |

| <u>Question 5</u> | <u>Questions</u> |
|--|---|
| <p>Manufacturing in Quantity</p> | <p>What are you like at designing simple products (Photo frame?) BUT all 200 will be exactly the same size/shape and all to the same high quality?</p> <p>Revision Guide page: 28, 29, 84</p> <p>What do you know about: Production lines and types of mass and batch production etc.</p> <p>Revision Guide page: 76, 77</p> |
| <u>Question 6</u> | <u>Questions</u> |
| <p>Developing Products from drawings/designs</p> | <p>Why do designers make models of their designs?</p> <p>What are the advantages to the designer of using CAD? What are the advantages to the designer of using CAM?</p> <p>Revision Guide page: 23, 82, 83</p> |
| <u>Revision Websites</u> | |
| <p>http://www.technologystudent.com/</p> | |

Revision Checklist for pupils:

| | YES/ NO |
|--|------------|
| I know how Designers collect information from consumers | |
| I know how Designers communicate TO consumers | |
| I know what a Development and a Net is | |
| I can draw a net to hold a container with tabs and fold lines | |
| I can do this net as a 3D sketch – folded up into a solid carton | |
| I know how paper and card is made | |
| I know the meaning of several printing and finishing techniques | |
| I can explain what Product Evolution is | |
| I can explain the meaning behind issues regarding Environmental Friendliness | |
| I know what a Risk Assessment is | |
| I know how to write a Risk Assessment | |

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| I understand what is meant by consumer legislation | |
| I can name 2 Consumer Legislation Acts and know what they mean to me. | |
| I know how to make a Product for a batch of 20 | |
| I can name 3 Design Movements and 3 Designers | |
| I can describe the stylistic features of the 3 Design Movements | |
| I know the names of both 2D and 3D drawing styles | |
| I know how and why these drawing styles are used by Designers. | |
| I know why and how ICT is used by Designers to communicate information to an audience. | |