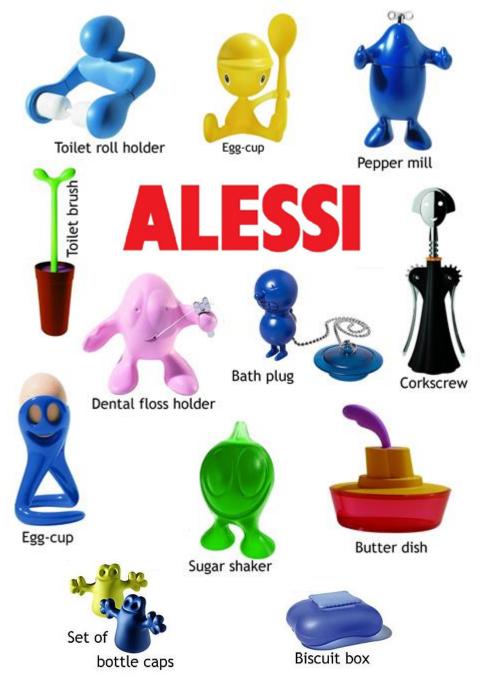
Product Design AQA Yr 10 TWILIGHT & Yr 11 REVISION MATERIAL



(Pre-release material is included)

Outline of Coursework, Practical & Exam Paper :

Exam Board :

AQA (Specification Code 4555)

(Coursework and practical combined is worth 60% of the overall mark)

Exam 2hr Paper (40% of overall mark) :

22nd June 2018 9:00am (2hrs)

Pre Release Material :



GCSE DESIGN AND TECHNOLOGY PRODUCT DESIGN

Unit 1 Written Paper June 2018

Preliminary Material

Instructions

- This Preparation Sheet will be given to you on or after 1 March 2018.
- The context for the question in Section A of the exam paper is given below.
- Between 1 March and the examination date you will have the opportunity to research the context with the guidance of your teacher.
- You must not take any Preliminary Material or any associated material into the examination room.

Information

• The Preliminary Material is to be seen by teachers and candidates **only**, for use during preparation for the examination on Friday 22 June 2018. It **cannot** be used by anyone else for any other purpose, other than as stated in the instructions issued, until after the examination date has passed. It must **not** be provided to third parties.

Context: Food carriers for leisure activities.

You will need to collect as much different information based around the topic as you can. This is best collected in the form of a scrapbook.

Topics to revise :

- •What is Product Design
- Market pull and technological push
- Product evolution
- •Continuous improvement
- Design Methodology
- Ideas from other designers
- Ideas from nature and maths
- Environmental issues
- Product life cycles
- Packaging
- Labelling
- Flat packed furniture
- Product maintenance
- Human factors Anthropometrics and Ergonomics
- Consumer protection
- Using ICT
- •CAD/CAM
- Design specification
- Scales of production
- Paper and board
- •Timber and manufactured boards
- Metals
- Plastics
- Manufacturing
- Production systems
- Quality assurance systems
- Communication systems

- •Casting and moulding
- Forming
- Extrusion
- Bending
- Forging
- •Shearing and die cutting
- Sawing
- •Chiselling and planing
- Drilling
- Milling and routing
- Turning
- Abrading
- Joining timber
- •Welding and soldering
- •Joining metals and plastics
- Standard components
- Adhesives
- •Surface finishes
- Polishing materials
- Printing

Controlled Assessment	Known intervention sessions
60% of the total marks 90 marks	Exam Intervention sessions are held before each exam. You can also email your teacher below for extra assistance with coursework or additional help.
A single design-and-make activity selected from a choice of set tasks, consisting of the development of a made outcome and a concise design folder and/or appropriate ICT	Mr Ramsden – <u>david.ramsden@whpfederation.org</u> Ms Sharp – <u>tracey.sharp@whpfederation.org</u>
evidence. These tasks are reviewed every two years. The design folder should consist of approximately: 20 pages of A3 paper	Intervention sessions are also held throughout Year's 9 and 10 and 11 for pupils who are underperforming or need extra assistance.
equivalent A4 paper or the ICT equivalent.	Any other information/Revision books/websites
It is expected that students should spend approximately 45 hours on this activity.	AQA GCSE D&T Product Design - Brian Russell, Nicola Deacon, Andrea Bennett, Jeff Draisey & Krysia Balance
As part of the evidence submitted, students should include photographs of the finished products as well as photographs at various stages of the process.	Lonsdale: GCSE Product Design Essentials Revision Guide - Ian MacDonald & Brian Russell
Written Paper	<i>Lonsdale: GCSE Product Design Essentials Workbook</i> - Ian MacDonald
40% of the total marks 120 marks	Design & Make It! GCSE Product Design Key Stage 4 - Russell & Shephard
2 hours One paper with two sections:	Alessi: art and poetry (Cutting Edge) - Sweet, Fay
Section A	Alessi (Design Monographs) - Collins, Michael
30 marks A design question based on context supplied before the	Alessi: the Design Factory - Alessi
exam	Objects of Design from the Museum of Modern Art - Antonelli, Paola
Section B 90 marks Covers all aspects of the specification content Answer all questions	Collapsibles: A design album of space-saving objects - Mollerup, Per
	The dream factory: Alessi since 1921 - Alessi, Alberto
Exam dates	Packaging design - Milton, Howard
Final Exam – 22 nd June 2018	Packaging design: graphics, materials, technology - Sonsino, Steven
	The Sustainability Handbook for Design and Technology - Practical Action and the Centre forTeachers

Independent Learning (Websites etc):

- www.technologystudent.com
- www.dtonline.org
- www.bbcbitesize.co.uk

Revision Material:

• AQA Product Design Revision Guide