Subject: A Level Design & Technology Paper: H406/01 Checklist

A Level D&T – H406/01 Principles of D&T – Year 13 – March 2025			
Student Checklist - A digital version of the OCR A Level D&T book can be found here https://passport.hoddereducation.co.uk/authenticate?referrer=https://boost-learning.com/&app=24 You all have a student account that uses your **@parkhouseschool.org e mail**. If you have **forgotten your password** click the **Forgotten Password? Link**, and this will ask for your @parkhouseschool.org e mail and **send a reset to your G Mail school account**. You should not need it, but the **Centre ID is 14632** (different to the PHS Centre Number 51219). Once into the **e book**, you will need to **view the Interactive View** and **click the sync button at the top right** to access the bookmarks in your **activity log** (filter by content) **or bookmark option** on the icons to the **left of the book screen**. Click the **black arrow** at the start of each and it will take you to the revision link. **Total marks for the paper is 80, therefore just over 1 min per mark.**			
Question 1 – Total 22 marks	R	A	G
Use **CUSTARD** – **C**ircle, **U**nderline, **S**cribble, **T**ry to include keywords in your answer, **A**ccount for all the marks in the question, **R**ead through your answer to make sure it makes sense, **D**on't rush you have 1min per mark https://www.youtube.com/watch?v=Oslo5tNOJb4 and only use the lines identified			
1a I and ii) 3 marks total – 3 minutes: Identify and reason and describe question - Revise using Boost Learning/BL pg157-163 and pg329, or in My Revision Notes/MyRN for Thermopolymers pg73-74 and Injection Moulding pg99			
1b I and ii) 3 marks total – 3 minutes: Describe and justify question - Revise using BL Pg351, or in MyRN for Fully Automated Manufacturing P107			
1c) 2 marks – 2 minutes: Describe question - Revise using BL Pg13, or in MyRN for Considering usability Pg11-15			
1d i) and ii) 12 marks – 12 minutes: Identify and justify question - Revise using BL Pg139-141, or in MyRN for Environmental Considerations Pg49 and Pg 53			

Question 2 – Total 21 marks	R	A	G
Use **CUSTARD** and show workings out and enter answer in correct space with correct units (where applicable).			
2a and b) 3 marks – 3 minutes: Identify and Describe question - Revise using BL Pg151-156 and Pg 223-225, or in MyRN for Metals and Metal Finishes Pg72 and Pg 83-84			
2c i) ii) and iii) 11 marks – 11 minutes: Maths question – Calculate the combined area of circles, calculate amount of waste in mm^3 using a curve, and calculate overall surface area in mm^2 – show workings out			
2d 2 marks – 2 minutes: Maths question – Calculate distance of a distribution length in mm			

2e i), ii) and iii) 5 marks – 5 minutes: Interpreting data and Justify questions using Anthropometric Data information – show working out.			

Question 3 – Total 14 marks	R	A	G
Use **CUSTARD** and only use lines identified			
3a i) and ii) 6 marks total – 6 minutes: State and Explain question - Revise using BL Pg368 and Pg372-374, or in MyRN for Safety Organisations and product testing Pg117-122.			
3b) 8 marks total – 8 minutes: Discuss and Refer question - Revise using Boost Learning/BL Pg382-387, or in MyRN for Feasibility and Commercial Viability Pg123-126.			

Question 4 – Total 23 marks	R	A	G
Use **CUSTARD** and only use lines identified			
4a) 4 marks total – 4 minutes: Describe question – Revise using BL Pg 204-206, or MyRN for Structural Integrity Pg 80-81			
4b) 2 marks total – 2 minutes: Identify and Justify question – Revise using BL Pg 148-149, or MyRN for Hardwoods Pg 70			
4c) 8 marks total – 8 minutes: Manufacturing question - Revise using BL Pg282-291, or in MyRN for Timber Processes Pg91-98. Manufacturing a Batch, so also considering jigs, formers, and templates. Also watch: Creating a simple porch swing https://www.youtube.com/watch?v=OVgdmX3ddCo			
4d i) and ii) 3 marks – 3 minutes: Identify and Justify question - Revise using BL Pg151-156 and 170-174, or in MyRN for Metals and Synthetic Fibres Pg72 and Pg74.			
4e) 6 marks – 6 minutes: Discuss and Refer question - Revise using BL Pg70 and Pg94-96, or in MyRN for Sustainability Issues Pg 49-50 and Pg52.			

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A Level D&T – H406/02 Problem Solving in D&T – Product Design – Year 13 – March 2025 **Total marks for the paper is 70, therefore approx. 1 min 20 secs per mark.**			
	R	A	G
Use **CUSTARD** – **C**ircle, **U**nderline, **S**cribble, **T**ry to include keywords in your answer, **A**ccount for all the marks in the question, **R**ead through your answer to make sure it makes sense, **D**on't rush you have 1min 30 secs per mark https://www.youtube.com/watch?v=Oslo5tNOJb4 and only use the lines identified			
1) 12 marks total – 18 minutes: Critically examine challenges considering the needs and requirements of different users - Revise using BL pg2-4, or in MyRN for Stakeholder and User Requirements pg 8-9			
2) 12 marks total – 18 minutes: Compare and Contrast question - Revise using BL Pg13-19, 30-31, 81-82, and 87-89, or in MyRN for Ergonomics, Required Maintenance, and Planned Obsolesence pg 12-14, 16-18, 27-28, and 39-43			
3) 8 marks – 9.6 minutes: Critically examine to create and increase demand question - Revise using BL pg35-40, and 57-62, or in MyRN for Marketing Strategy pg 20-23, and 33-35			
4) 16 marks – 24 minutes: Manufacturing question - Revise using BL Pg319-326 (info for Product Design), or in MyRN for Consistency and Accuracy Pg103-106. Watch the following for some additional info on equipment used: Tube bending https://www.youtube.com/watch?v=3n_lf2RHIPs Welding jigs https://www.youtube.com/watch?v=1YFemlP3DD4 and https://www.youtube.com/watch?v=KKBEjjmIhZE			
5) 6 marks – 9 minutes: Maths question – Calculating weight and cost using data in resource booklet			
4) 16 marks – 24 minutes: Manufacturing question - Revise using BL Pg283-295 (info for Product Design), or in MyRN for Polymers, Timbers, and Finishes, Steam Bending Pg70, 73, 81-82, 91-98, 109			