



A Level D&T – H406/01 Principles of D&T – Year 13 – December 2024

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 23 marks	R	A	G
Use CUSTARD – <u>C</u> ircle, <u>U</u> nderline, <u>S</u> cribble, <u>T</u> ry to include keywords in your answer, <u>A</u> ccount for all the marks in the question, <u>R</u> ead through your answer to make sure it makes sense, <u>D</u> on't rush you have 1min 20 per mark https://www.youtube.com/watch?v=Oslo5tNOJb4 and only use the lines identified			
1a) 2 marks total – 2 minutes: Identify and justify question - Revise using Boost Learning/BL Pg157-163, or in MyRN for Thermopolymers and Thermosetting Polymers P73-74			
1b) 2 marks total – 2 minutes: Explain question - Revise using BL Pg329-333, or in MyRN for Thermopolymers and Thermosetting Polymers P99-101			
1c) 4 marks – 4 minutes: Explain question - Revise using BL Pg12-19, or in MyRN for Considering usability Pg11-15			
1d i) 6 marks – 6 minutes: Discuss question - Revise using BL Pg42-44, or in MyRN for Technological Developments Pg23-24			
1d ii) 6 marks – 6 minutes: Identify and Justify question – Revise using BL Pg42-44, or in MyRN for Technological Developments Pg23-24			
1e) 3 marks – 3 minutes: Explain question – Revise using BL Pg86-88, or in MyRN for Factors to consider when manufacturing products Pg51-52			

Question 2 – Total 19 marks	R	A	G
Use CUSTARD and show workings out and enter answer in correct space with correct units (where applicable).			
2a i) 4 marks – 4 minutes: Identify and Explain question - Revise using BL Pg56-62, or in MyRN for Lifecycle of Products Pg33-34			
2b i) ii) and iii) 8 marks – 8 minutes: Maths question – Calculate the volume, calculate percent discount, and converting cm ³ to ml – show workings out			
2c i) 5 marks – 5 minutes: Packaging net development question – Watch video at 4mins 13 secs https://youtu.be/EdtAi1Pp7YE?si=dVbNuVGTriprao9W , and also follow link on 13D DET1 Google Classroom			



https://www.google.com/search?q=card+packaging+nets&sca_esv=a132f53bdf2e8af&sca_upv=1&rlz=1C1CHBF_enGB1075GB1075&udm=2&biw=1920&bih=912&ei=x9HxZtv9EuiyhblPre2MKQ&ved=0ahUKEwib_d359dmlAxVoWUEAHa02lwUQ4dUDCBE&uact=5&oq=card+packaging+nets&gs_lp=Egxnd3Mtd2l6LXNlcnAiE2NhcmQgcGFja2FnaW5nIG5ldHNI4BxQygpYsXhwAXgAkAEAmAF9oAHIAqoBAzQuMbgBA8gBAPgBAZgCAqACOMICChAAGIAEGEMYigXCAgUQABiABMICBhAAGAcYHsICCBAAGAUyBxgemAMAIAYBkgcBMqAH9AQ&sclient=gws-wiz-serp			
2c ii) 2 marks – 2 minutes: Discuss question - Maths question – Calculate the surface area – show working out.			

Question 3 – Total 12 marks	R	A	G
Use CUSTARD and only use lines identified			
3a) and b) 4 marks total – 4 minutes: Describe question - Revise using Boost Learning/BL Pg92-93, or in MyRN for Sustainability issues relating to industrial manufacture Pg48.			
3c) 8 marks total – 8 minutes: Discuss question - Revise using Boost Learning/BL Pg92-96, or in MyRN for Sustainability issues relating to industrial manufacture Pg48-50.			

Question 4 – Total 26 marks	R	A	G
Use CUSTARD and only use lines identified			
4a i) 5 marks total – 5 minutes: Manufacturing question - Revise using Boost Learning/BL Pg279-280, 287, 300, or in MyRN for Metal processes Pg101, and Modelling ideas using digital methods Pg90. Also watch: Learn to use a tap and die https://youtu.be/r6ljd9o-C10?si=gAw_AlnoG7oVnoB-Knurling on a metal working lathe https://youtu.be/fbTxv16cHkQ?si=WxihL9q1Nrr3kZiw Cutting a thread on a metalworking lathe https://youtu.be/nCZFmuYnotQ?si=aLOvqDGB3EgnLJWI Facing, Turning, Grooving, Knurling https://youtu.be/SvlZHHDXCZs?si=KkzHVxbZ-QXaeO_R			
4a ii) 8 marks – 8 minutes: Manufacturing question, including quality control - Revise using Boost Learning/BL Pg333-335 and 356-357, or in MyRN for Metal processes Pg101-102 and Quality Control Pg112.			
4a iii) 2 marks – 2 minutes: Discuss question - Maths question – Probability – show working out.			



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4b i) and ii) 5 marks total – 5 minutes: Identify question - Revise using Boost Learning/BL Pg151-156, or in MyRN for Metals Pg72			
4b iii) 2 marks total – 2 minutes: Describe question - Revise using Boost Learning/BL Pg73-74, or in MyRN for The source and origin of materials Pg37			
4b iv) 4 marks – 4 minutes: Describe question – Revise using Boost Learning/BL Pg349, or in MyRN for Lean Manufacturing Pg108-109			