| GCSE D&T – J310/01 Principles of D&T – Year 10 – June 2024 | | | |
|---|---|---|---|
| **Student Checklist - A digital version of the OCR GCSE D&T book can be found here** https://passport.hoddereducation.co.uk/authenticate?referrer=https://boost-learning.com/&app=24 where you can login with 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**.<br><br>The revision below is based on the **My Revision Notes book** that you were given by school. **Total marks for the paper is 77, therefore just over 1.3 min per mark.** | | | |

| Section A - Question 1 – Total = 16 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 20 per mark https://www.youtube.com/watch?v=Oslo5tNOJb4 and only use the lines identified | | | |
| 1a i) and ii) 3 marks total – 3.9 minutes: Name? and Properties questions - Revise using Boost Learning Pg46 My RN for Fibres and Textiles Pg32 | | | |
| 1b) 4 marks – 5.2 minutes: Benefits question - Revise using Boost Learning Pg74-77 or My RN for The impact of new and emerging technologies P6 48-49 | | | |
| 1c) 2 marks – 2.6 minutes: Explain - Revise using Boost Learning Pg14-19 or My RN for Opportunities and constraints that influence design and making Pg8-11 | | | |
| 1d) 1 mark – 1.3 minutes: Explain question - Revise using Boost Learning Pg44-45 or My RN for Thermo and thermosetting polymers Pg30-32 | | | |
| 1e) 2 marks – 2.6 minutes: Reason question - Revise using Boost Learning Pg28-29 or My RN for Social, cultural, moral and economic factors Pg 18-19 | | | |
| 1f) 4 marks – 2.6 minutes: Reason question - Revise using Boost Learning Pg28-29 or My RN for Environmental, social and economic influences Pg18-19 | | | |

| Section A - Question 2 – Total = 15 marks | R | A | G |
|---|---|---|---|
| Use **CUSTARD** and show workings out and enter answer in correct space with correct units (where applicable). | | | |
| 2a) 2 marks – 2.6 minutes: Maths question - Calculating an angle | | | |
| 2b i) and ii) 5 marks – 7.5 minutes: Maths question – Converting measurement and calculating number of lengths | | | |
| 2c i) and ii) 2 marks – 2.6 minutes: Name and Benefit question - Revise using Boost Learning Pg40-42 or My RN for Natural and manufactured timbers Pg28-29 | | | |

| | R | A | G |
|---|---|---|---|
| 2d) 2 marks – 2.6  minutes: Maths question - % increase | | | |
| 2e) 4 marks – 5.2  minutes: Drawing question – Revise using My RN for Working drawings Pg21 or https://www.bbc.co.uk/bitesize/guides/z6jkw6f/revision/6 | | | |

| Section A - Question 3 – Total = 24 marks | R | A | G |
|---|---|---|---|
| Use **CUSTARD** and only use lines identified | | | |
| 3a) 2 marks – 2.6 minutes: State question - Revise using Boost Learning Pg61 or My RN for Controlled movement Pg38 | | | |
| 3b) 2 marks – 2.6 minutes: Explain question - Revise using Boost Learning Pg64-65 or My RN for Controlled movement – Gears Pg40 | | | |
| 3c i) and ii)) 2 marks – 2.6 minutes: Explain question - Revise using Boost Learning Pg64-65 or My RN for Controlled movement – Gears Pg40 | | | |
| 3d) 2 marks – 2.6 minutes: Explain question - Revise using Boost Learning Pg7-9 or My RN for Usability Pg5 | | | |
| 3e) 3 marks – 3.9 minutes: Maths question – Converting measurements and identifying. | | | |
| 3f) 2 marks – 2.6 minutes: Identify question - Revise using Boost Learning In Depth Structural Integrity information 9.5, 10. 5, 11.5, 12.5, or My RN for Strength Pg34 and Structural Integrity sections for In Depth Materials or the weblink https://www.bbc.co.uk/bitesize/guides/zh4g4qt/revision/2 | | | |
| 3g i) and ii) 3 marks – 3.9 minutes: Explain question - Revise using Boost Learning Pg44 and 52 or My Revision Notes for Alloys Pg30 and weblink for Composites https://www.bbc.co.uk/bitesize/guides/zsv8fcw/revision/3 | | | |
| 3h) 8 marks – 10.4 minutes: Discuss question - Revise using Boost Learning Pg26-28 or My RN for Sources of energy Pg16-17 | | | |

| Section B - Question 4 – Total = 22 marks | R | A | G |
|---|---|---|---|
| Use **CUSTARD** and only use lines/space identified | | | |
| **Ensure answer to question refers to/is appropriate to product chosen on Page 14 and from Insert** | | | |
| 4a i), ii) and iii) 12 marks – 13.6 minutes: Commercial manufacture question: <br> Scale of manufacture, Method of manufacture and use of jigs, formers, templates and digital technology <br><br> Link in Google Classroom – Class 11BDET1 of useful videos on YouTube <br> or use https://www.focuselearning.co.uk/  Username: **student@parkhouse34225** Password: **cumr74a7f** <br> Polymers – Revise using Boost Learning Pg224-226 or My RN for Manufacturing at different scales of production and processes used Pg119-121 | | | |
| 4b) 6 marks – 7.8 minutes – Sourcing, extracting and converting of raw materials <br> https://www.focuselearning.co.uk/  Username: **student@parkhouse34225** Password: **cumr74a7f** <br> Polymers – Revise using Boost Learning Pg194-196 or My Revision Notes for Sources and origins Pg104-105 | | | |
| 4c i) and ii)) 4 marks total – 5.2 minutes: Identify and examples question – Ergonomics and anthropometrics <br> or use https://www.focuselearning.co.uk/  Username: **student@parkhouse34225** Password: **cumr74a7f** <br> Revise using Boost Learning for Ergonomics and Anthropometrics Pg 7-8 or My Revision Notes for Usability Pg5-7 | | | |