

# Design and Technology - 60 days of Revision

|   |   |   |  |  |   |   |   |   |   |
|---|---|---|--|--|---|---|---|---|---|
| <b>Day 1 -</b><br>Describe Market Pull and Technology push - Give at least 2 examples of each. (10)     | <b>Day 2 -</b><br>What ergonomic considerations need to be made when designing a potato peeler? (96, 102) | <b>Day 3 -</b><br>Explain why manufacturers may use standard components. (50, 51, 88, 89, 76, 60, 63)             | <b>Day 4 -</b><br>Explain 3 ways to consider safety when manufacturing an product. (65, 66, 118, 119)    | <b>Day 5 -</b><br>Use notes and diagrams to explain the process of Line Bending. (69)                          | <b>Day 6 -</b><br>What is a system and what 3 parts does it consist of? (2)   | <b>Day 7 -</b><br>Explain the process of Extrusion, give examples of products using Extrusion. (70)           | <b>Day 8 -</b><br>Continuous Improvement - How does this ensure efficient manufacturing? (8)                                | <b>Day 9 -</b><br>Define the terms Ergonomics and Anthropometrics (96, 102)                                 | <b>Day 10 -</b><br>Summarise key information on 2 of the designers and companies. (94,95)           |
| <b>Day 11 -</b><br>Define the terms Ductile and Hardness. Give 2 material examples. (14,15)             | <b>Day 12 -</b><br>Explain planned obsolescence, give examples of where it has been used. (7)             | <b>Day 13 -</b><br>Make up a song or poem to help you remember the 6 R's. (9)                                     | <b>Day 14 -</b><br>What are the benefits of using Jigs and templates? Give an Example. (42,38, 43, 69)   | <b>Day 15 -</b><br>What is market Research? How do designers use it? (98, 100, 101)                            | <b>Day 16 -</b><br>Create a full page mind map of plastics and their uses. (19)   | <b>Day 17 -</b><br>Make revision flash cards to summarise the types and properties of Paper and Boards. (16)  | <b>Day 18 -</b><br>Describe how tests can be used to ensure safety. (119)   | <b>Day 19 -</b><br>Explain the different types of energy and it's storage. (12, 13)                         | <b>Day 20 -</b><br>Explain design for disassembly and design for maintenance. (7)                   |
| <b>Day 21 -</b><br>Make revision flash cards to summarise the types and properties of Textiles. (74,75) | <b>Day 22 -</b><br>Explain why market research is important. (100,101)                                    | <b>Day 23 -</b><br>Carry out a Life Cycle Assessment of the CGP Revision Guide (8)                                | <b>Day 24 -</b><br>Explain the process of Vacuum Forming and Blow Moulding - give example products. (70) | <b>Day 25 -</b><br>Make revision flash cards to summarise the types and properties of Metals and Alloys. (18)  | <b>Day 26 -</b><br>Write a design specification for any product you use daily. (102,103)                                | <b>Day 27 -</b><br>List 3 temporary and 3 permanent methods of joining wood, metal and plastic. (61,62,63,71) | <b>Day 28 -</b><br>Explain Batch production - Give examples. (38,39)  | <b>Day 29 -</b><br>Create a mind map of Modern /New Materials and their uses. (32)                          | <b>Day 30 -</b><br>Describe using diagrams the process of Blow Moulding and Vacuum forming. (70)    |
| <b>Day 31 -</b><br>Explain the main types of linkages - draw diagrams. (28,29)                          | <b>Day 32 -</b><br>List as many adhesives and their uses as you can. (51,71)                              | <b>Day 33 -</b><br>Explain using notes and sketches the types and uses of Knock Down Fittings. (63)               | <b>Day 34 -</b><br>Explain the 4 main types of production. Give 2 examples of each. (38,39)              | <b>Day 35 -</b><br>List the Environmental and Social factors that designers have to consider. (103)            | <b>Day 36 -</b><br>Explain examples of the 4 main types of motion. (28)   | <b>Day 37 -</b><br>Produce flash cards for the main types of printing processes. (54,55)                      | <b>Day 38 -</b><br>Explain the different types of forces that can act upon a product, how can they be counteracted? (36,37) | <b>Day 39 -</b><br>List the Social and Cultural factors that designers have to consider. (9,11)             | <b>Day 40 -</b><br>Describe the factors that you should consider when selecting a material. (34,35) |
| <b>Day 41 -</b><br>Describe the terms CAD and CAM and give examples of the equipment. (4,5)             | <b>Day 42 -</b><br>Summarise how technology effects the design and production of a component. (2,3)       | <b>Day 43 -</b><br>Describe the key properties of materials. (14,15,48,49,58,59)                                  | <b>Day 44 -</b><br>Explain how gears and pulleys change motion, torque and speed. (29,89)                | <b>Day 45 -</b><br>Explain how the properties of materials can be modified. (59)                               | <b>Day 46 -</b><br>List the key forms and stock sizes that timber, paper and board is manufactured in. (49,60,76,87-90) | <b>Day 47 -</b><br>Explain the conversion and seasoning of wood to make timber. (44, 59)                      | <b>Day 48 -</b><br>What is a risk assessment and how are they used? (119)   | <b>Day 49 -</b><br>Define the terms Quality Control and Quality Assurance - Give examples. (40,41)          | <b>Day 50 -</b><br>Describe different ways that metal can be shaped. (68)                           |
| <b>Day 51 -</b><br>Explain the different finishes that can be applied to Woods - give examples. (72)    | <b>Day 52 -</b><br>Explain the difference between thermosetting and thermoplastics - give examples. (19)  | <b>Day 53 -</b><br>Make revision flash cards to summarise the types, uses and properties of Smart Materials. (33) | <b>Day 54 -</b><br>Explain the role of Prototypes when designing a product. (114, 115)                   | <b>Day 55 -</b><br>Make revision flash cards to summarise the types and properties of Natural Timbers. (58,59) | <b>Day 56 -</b><br>Explain the process of the production of paper and board - use diagrams. (44)                        | <b>Day 57 -</b><br>Explain the different finishes that can be applied to metals - give examples. (73)         | <b>Day 58 -</b><br>Write a design brief and specification for a padded envelope or a can opener. (98,99,107,114)            | <b>Day 59 -</b><br>Make flash cards for the key tools and equipment used in Design and Technology (64 - 67) | <b>!!Exam Day!!</b><br><b>Friday</b><br><b>24th May</b><br><b>2019</b>                              |

(Numbers in Brackets) - CGP Revision Guide - this is where you'll find the main information, although there is a lot more on each topic scattered through the book....Searching will help you revise.  
If there are test questions on the pages that you are looking at, give them a try. The correct answers are at the back of the book.

**You MUST have started this by : 26th March 2019**