

# LONG TERM PLANS

Year Overview (GCSE Product Design Year 10)



| ADT Faculty   |   |                |                |                   |      |       |           |             |       |             |   |
|---|---|----------------|----------------|-------------------|------|-------|-----------|-------------|-------|-------------|---|
| YEAR 10 – GCSE Product Design   |   |                |                |                   |      |       |           |             |       |             |   |
| Autumn term   |   |                |                |                   |      |       |           |             |       |             |   |
| Half term 1   | Half term 2   |                |                |                   |      |       |           |             |       |             |   |
| <p><b><u>Re-branding/packaging project for chocolates/biscuits</u></b><br/>                     Part A:<br/>                     Food packaging for chocolates or biscuits. Pupils need to design and manufacture a new selection of chocolates/biscuits for a retail store. The outside packaging will be made from card and include all of the graphical design using illustrator or 2D Design in order to promote the product and protect it. They will be investigating different materials used for packaging alongside different packaging styles.<br/>                     Part B:<br/>                     Pupils need to design the tray to hold the food in. The inside packaging tray to hold the food will be made from plastic vacuum formed. The inside design must be design to be used as something else once the product has finished. e.g. flower pot, pencil holder, stand for mobile phone.<br/>                     Moulds/jigs will be made using wood.</p> | <p><b><u>Acrylic child's toothbrush holder and packaging</u></b><br/>                     Part A:<br/>                     Toothbrush holder for children. The main aim is to encourage children to brush their teeth using an interactive, encouraging and child-friendly design idea. The focus will be on ergonomics and anthropometrics whilst ensuring how the child could safely use and interact with the product. The material being used will be flat sheet acrylic. The line bender will be used to construct the product in a simple yet effective way. Pupils will be using 2-D design and the laser cutter.<br/>                     Part B:<br/>                     The pupils will need to design the packaging to go alongside their design to help protect and advertise their product.</p> |                |                |                   |      |       |           |             |       |             |   |
| Spring term   |   |                |                |                   |      |       |           |             |       |             |   |
| Half term 1   | Half term 2   |                |                |                   |      |       |           |             |       |             |   |
| <p><b><u>Design movement influenced necklace and packaging</u></b><br/>                     Part A:<br/>                     Design and manufacture a necklace in the style of a specific design movement for a local design museum. The necklace will go on sale so it must be creative and interesting in order for people to purchase. The necklace will be pewter casted. An M.D.F mould will be constructed to help with the construction of the necklace. This project is aimed at a wide audience and pupil must narrow it down to a specific target market.</p>   | <p><b><u>Design movement influenced necklace and packaging</u></b><br/>                     Part B:<br/>                     Students will have to design the packaging to go alongside the necklace. The packaging must also include the features of the chosen design movement and include all of the necessary graphical information.<br/>                     (Victorian, arts &amp; crafts, Art Nouveau, Art Deco, Bauhaus, Minimalism, Pop Art, Post Modernism, Memphis, Contemporary, 21<sup>st</sup> Century)</p>   |                |                |                   |      |       |           |             |       |             |   |
| Summer term   |   |                |                |                   |      |       |           |             |       |             |   |
| Half term 1   | Half term 2   |                |                |                   |      |       |           |             |       |             |   |
| <p><b><u>Magazine rack design project</u></b><br/>                     Pupils will have to design and manufacture a magazine rack using a range of materials and manufacturing processes covered in previous projects. Not all processes and materials have to be chosen but in order to be successful against the marking criteria, pupils should attempt:</p> <table border="0"> <tr> <td>Laser cutting</td> <td>Pewter casting</td> </tr> <tr> <td>Vacuum forming</td> <td>Acrylic (plastic)</td> </tr> <tr> <td>Wood</td> <td>Metal</td> </tr> <tr> <td>2D Design</td> <td>Illustrator</td> </tr> <tr> <td>Lathe</td> <td>Line bender</td> </tr> </table>   | Laser cutting   | Pewter casting | Vacuum forming | Acrylic (plastic) | Wood | Metal | 2D Design | Illustrator | Lathe | Line bender | <p><b><u>Magazine rack design project</u></b><br/>                     Pupils need to consider how they can creatively and accurately bring all materials together in a neat and clean way. The minimum number of magazines that need storing is 3. There's a set amount of material given to each pupil. They need to creatively change this in order to achieve their final idea.<br/> <b>GCSE Controlled Assessment</b><br/> <b>Aims:</b><br/>                     To identify and research a chosen design and manufacture task from the Exam Board Controlled Assessment Tasks.<br/> <b>Key Assessment Activity:</b><br/> <b>Written Assessment:</b> Investigating the Design Context<br/> <b>Mock exam</b> based on previous year's actual paper.</p> |
| Laser cutting   | Pewter casting  |                |                |                   |      |       |           |             |       |             |   |
| Vacuum forming  | Acrylic (plastic)   |                |                |                   |      |       |           |             |       |             |   |
| Wood  | Metal   |                |                |                   |      |       |           |             |       |             |   |
| 2D Design   | Illustrator   |                |                |                   |      |       |           |             |       |             |   |
| Lathe   | Line bender   |                |                |                   |      |       |           |             |       |             |   |