



### Curriculum Intent

Subject: Design and Technology

Year: 11

|  | What?  | Why?   | National Curriculum Links                               |
|--|--|--|---|
|  | <p>Iterative design process</p> <ul style="list-style-type: none"> <li>• Health &amp; Safety rules with reasons</li> <li>• Tools, materials and equipment</li> <li>• Primary user, stakeholders and clients</li> <li>• Research</li> <li>• Ergonomics and anthropometric data</li> <li>• Card modelling</li> <li>• Production plans with stage-by-stage annotation</li> <li>• Marking out, cutting, gluing and finishing</li> <li>• 2d design and technical drawings</li> <li>• Industrial links to manufacturing of products</li> </ul> <p>Industrial processes</p> | <ul style="list-style-type: none"> <li>• Students to make informed decisions on using equipment and way to conduct themselves in the workshop</li> <li>• Students to choose tools, materials and equipment based on what is needed by their design</li> <li>• Who are they designing for and why</li> <li>• Using appropriate methods of research to collect information</li> <li>• What ergonomic and anthropometric data is needed for their product</li> <li>• Quick modelling</li> <li>• Mathematical modelling (2d design) with industrial application</li> <li>• Understanding stages of production</li> <li>• Produce quality manufacturing of product</li> </ul> <p>Industrial links to the manufacture of their product</p> | <ul style="list-style-type: none"> <li>• N/A</li> </ul> |
|  | <p>Revision</p> <ul style="list-style-type: none"> <li>• Health &amp; Safety rules with reasons</li> <li>• Tools, materials and equipment</li> <li>• Primary user, stakeholders and clients</li> <li>• Research methods</li> <li>• Ergonomics and anthropometric data</li> <li>• Methods of modelling</li> <li>• Stages of manufacturing marking out, cutting, gluing and finishing</li> <li>• 2d design and technical drawings</li> <li>• Industrial links to manufacturing of products</li> </ul> <p>Industrial processes</p>                                      | <p>Recap for exam – Crucial Knowledge.</p>   | <ul style="list-style-type: none"> <li>• N/A</li> </ul> |