



Topic	Learning Objectives	Key Vocabulary	Learning Sequence	Linked Learning	Home Learning
<b>Product Analysis</b> <b>Week 1-2</b>	To analyse similar existing products and write your own design specification	Describe / Explain Evaluate / Analyse Design features Colour Typography Function Target market Material Properties CAD/CAM Design specification	Prompt sheets with keywords and questions used to support students as they analyse products similar to their own keyring and coaster designs.  Iterative design: students will use their knowledge of existing products to inform their own designs.  Finished designs will be manufactured on the laser cutter with acrylic/ balsa wood/laserply.	Computing - development of computer proficiency/ use of Microsoft Publisher (DTP software)  English - quality of written communication  Maths - sizes/ units of products	Extended home learning project that lasts the full 10 week rotation.  Students will research into the work of <b>Alberto Alessi</b> , produce a 2D piece of design work inspired by his company, which will be presented to the rest of the class.
<b>Techsoft 2d Design</b> <b>Week 3-4</b>	To produce creative keyring designs by using Techsoft 2D Design	Vector Grid lock Transparency Black and white silhouette Shape / circle radius Acrylic Balsa wood Laserply	Intro to copy/pasting image and enabling transparency.  Short, sharp demos on using the contour tool, ABC tool.  Further demos to challenge the more capable students by using more complex repeat and rotate tools.	Computing - development of computer proficiency  Art - creativity	



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<p><b>Google Sketchup</b> <b>Week 5-6</b></p>	<p>To produce creative 3D designs by using Google Sketchup.</p>	<p>Software Effects Resize</p>	<p>Intro to setting up a page on GS. Short, sharp demos on using tools.  Further demos to challenge the more capable students by using more complex tools.  Iterative design: analyse existing products to inform designs. Work to be self and peer assessed.</p>	<p>Computing - development of computer proficiency  Art - creativity  Engineering - product design</p>	
<p><b>Scales of Production</b> <b>Week 7-8</b></p>	<p>To conduct detailed research on the different scales of production, including their characteristics and advantages/ disadvantages,</p>	<p>One-off Batch Mass Continuous JIT Production Automation Downtime.</p>	<p>Students will be given the keywords to initially research into this topic; detailed slides will be provided to develop depth/ detail.</p>	<p>Computing - use of PowerPoint  Business Studies - understanding different scales of production  Maths - understanding unit cost</p>	