

| Design Technology Topic & Skills  | Careers & Useful Links   |
|---|--|
| <p><b>Screen Print Project</b><br/> <i>Skills covered:</i></p> <ul style="list-style-type: none"> <li>• What textiles are and where they come from</li> <li>• Local history (Whitworth and Manchester as 'Cottonopolis')</li> <li>• Batik techniques</li> <li>• Screen printing</li> <li>• 2D TechSoft design for laser cutting</li> <li>• Craft knife safety</li> </ul>          | <p><b>Careers:</b></p> <ol style="list-style-type: none"> <li>1. Textile Designer (designs prints and patterns for fabrics)</li> <li>2. Screen Printer / Printmaker (uses printing skills to create bulk media or art)</li> <li>3. Museum Curator / Local Historian (researches and presents local textile history)</li> </ol> <p><b>Useful Links for Year 8:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">BBC Bitesize: What is it like to be a Textile Designer?</a></li> <li>• <a href="#">icould: Watch videos of Heritage and Culture professionals</a></li> <li>• <a href="#">NCS: Textile Designer Job Profile</a></li> </ul> |
| <p><b>Pull-Along Toy Project</b><br/> <i>Skills covered:</i></p> <ul style="list-style-type: none"> <li>• Product analysis &amp; market research</li> <li>• Marking out and creating templates</li> <li>• Power tools (belt sander, scroll saw, pillar drill)</li> <li>• Hand tools (coping saws, tenon saws, files)</li> <li>• Painting and finishing</li> </ul>                 | <p><b>Careers:</b></p> <ol style="list-style-type: none"> <li>1. Toy Designer (uses market research and analysis to design toys)</li> <li>2. Workshop Technician (sets up, maintains, and safely operates workshop power tools)</li> <li>3. Model Maker (creates physical prototypes from templates)</li> </ol> <p><b>Useful Links for Year 8:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">BBC Bitesize: Careers in Engineering and Manufacturing</a></li> <li>• <a href="#">icould: Watch videos of Manufacturing careers</a></li> <li>• <a href="#">NCS: Model Maker Job Profile</a></li> </ul>                                   |
| <p><b>Chocolate Mould Project</b><br/> <i>Skills covered:</i></p> <ul style="list-style-type: none"> <li>• 3D CAD using Solidworks (sketching, dimensions, extrude, chamfer, fillet, extrude cut)</li> <li>• Making a wooden form</li> <li>• Vacuum forming and creating a mould</li> <li>• Tempering and casting chocolate</li> </ul>  | <p><b>Careers:</b></p> <ol style="list-style-type: none"> <li>1. CAD Technician / Design Engineer (uses 3D software like Solidworks)</li> <li>2. Chocolatier (uses tempering, casting, and food science to create confectionary)</li> <li>3. Tool / Mould Maker (creates precision moulds for manufacturing)</li> </ol> <p><b>Useful Links for Year 8:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">BBC Bitesize: Jobs that use Science</a></li> <li>• <a href="#">icould: Watch videos on Food and Drink Manufacturing</a></li> <li>• <a href="#">NCS: CAD Technician Job Profile</a></li> </ul>                                    |
| <p><b>Acrylic Clock Project</b><br/> <i>Skills covered:</i></p> <ul style="list-style-type: none"> <li>• Working with plastics (origins and physical properties)</li> <li>• Understanding sustainability</li> <li>• Sawing (scroll saw, pillar drill, hand tools)</li> <li>• Cross and draw filing techniques</li> <li>• Abrasing with wet/dry paper and buffer safety</li> </ul> | <p><b>Careers:</b></p> <ol style="list-style-type: none"> <li>1. Plastics Fabricator (machines precise parts from plastics and acrylics)</li> <li>2. Materials Engineer (understands physical properties of plastics/polymers)</li> <li>3. Horologist / Clockmaker (designs, builds, and repairs clocks and watches)</li> </ol> <p><b>Useful Links for Year 8:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">BBC Bitesize: Careers in Sustainability and the Environment</a></li> <li>• <a href="#">icould: Watch videos on Environment and Land</a></li> <li>• <a href="#">NCS: Mechanical Engineer Job Profile</a></li> </ul>       |