

Design Technology Topic & Skills	Careers & Useful Links
<p>Anthropometric Chair Project <i>Skills covered:</i></p> <ul style="list-style-type: none"> • Primary and secondary research • Anthropometrics and ergonomics (collecting/analysing data) • Scale and fitness for purpose • Isometric sketching, block building, crating, and rendering • Measuring, marking, and modelling scale models (iterative design) • Analysis and evaluation • 2D TechSoft (laser cutting) & advanced SolidWorks (assemblies, orthographic drawings) • Craft knife & glue gun safety • 3D printing 	<p>Careers:</p> <ol style="list-style-type: none"> 1. Ergonomist / Human Factors Specialist (uses anthropometric data to ensure products fit people perfectly) 2. Interior Designer (designs spaces ensuring furniture scales and functions properly for humans) 3. 3D Printing Technician (manages and operates advanced additive manufacturing equipment) <p>Useful Links for Year 9:</p> <ul style="list-style-type: none"> • BBC Bitesize: What is it like to be an Interior Designer? • icould: Watch videos on Engineering and Maintenance • NCS: Ergonomist Job Profile
<p>Paper Engineering <i>Skills covered:</i></p> <ul style="list-style-type: none"> • Knowing where paper comes from and how it is made • Creating simple V-fold pop-ups • Creating complex double linear mechanisms • Understanding sustainability 	<p>Careers:</p> <ol style="list-style-type: none"> 1. Bookbinder (uses traditional and modern paper folding/binding techniques) 2. Technical Illustrator (creates complex 2D and 3D visual representations and mechanisms) 3. Materials Technician (tests the strength, durability, and sustainability of paper and card) <p>Useful Links for Year 9:</p> <ul style="list-style-type: none"> • BBC Bitesize: Careers in Publishing and Media • icould: Watch videos on Publishing and Media careers • NCS: Bookbinder Job Profile
<p>Keepsake Box <i>Skills covered:</i></p> <ul style="list-style-type: none"> • Finger, dowel, and housing joints • Recap on isometric drawing, block building, crating, and rendering • Recap on laser cutting lids • Learning to vectorise 	<p>Careers:</p> <ol style="list-style-type: none"> 1. Wood Machinist (sets up and operates specialized woodworking machinery) 2. Antique Restorer (uses traditional wood joints to repair and preserve historic items) 3. Set Designer / Stage Carpenter (builds scale models and constructs complex wooden props/sets) <p>Useful Links for Year 9:</p> <ul style="list-style-type: none"> • BBC Bitesize: What is it like to be a Set Designer? • icould: Watch videos on Performing Arts and Stage Crafts • NCS: Wood Machinist Job Profile
<p>Food <i>Skills covered:</i></p> <ul style="list-style-type: none"> • Hospitality and catering industry (operations, factors affecting success, customer requirements) • Making puff pastry, creating rolls, mini quiche, and focaccia • Risks and control measures for personal safety • Cooking and presentation techniques 	<p>Careers:</p> <ol style="list-style-type: none"> 1. Catering Manager (runs the operational side of catering, ensuring customer requirements are met) 2. Baker / Pastry Chef (specialises in doughs, pastries, and baked goods like focaccia and quiches) 3. Quality Control Inspector / Food Safety (monitors risks, control measures, and presentation standards) <p>Useful Links for Year 9:</p> <ul style="list-style-type: none"> • BBC Bitesize: Jobs that use Food and Nutrition • icould: Watch videos on Hospitality, Leisure and Tourism • NCS: Catering Manager Job Profile