

Title	Learning Objectives	Classroom Activity	Recommended Homework	Marking & Assessment
<p><b>Coat hook Design and Manufacture</b></p>	<p><b>Designing Skills</b></p> <p>Design a personalised coat hook that will be based on a chosen theme and aimed at a chosen target market. The product will be designed in a way that will allow it to be manufactured using school equipment and facilities. Inspiration for creativity will be through researching a particular design era, artist or designer.</p> <p><b>Making Skills</b></p> <p>A double coat hook will be manufactured from aluminium. Students will develop marking out skills, shaping and bending of metal. A jig will be used to enable accuracy of the shape and to allow repeatability. The backboard will be manufactured from MDF and shaped using a series of hand tools and machinery.</p> <p><b>Knowledge &amp; Understanding</b></p> <p>To understand the properties of the materials used to manufacture the product. To develop a knowledge of the design process (design &amp; make) and understand the need to produce specific tasks in the correct order. Develop the knowledge on understanding of using the correct equipment in a safe and proper way. To understand how to creatively design and develop ideas and turn these into a final functional product.</p>	<p>Produce a design Brief from a given situation</p> <p>Produce a specification that will satisfy the brief</p> <p>Use influence from research to successfully produce several creative initial ideas</p> <p>Develop at least one idea, reviewing the choice of material and investigating the manufacturing process</p> <p>Accurately mark out flat aluminium bar to prepare for drilling, shaping and bending</p> <p>Mark and cut MDF backboard using correct equipment and processes</p> <p>Attach separate pieces together using most effective process</p> <p>Produce evaluation from information gathered from self and peer assessment of finished product</p>	<p>Research into common household use of aluminium</p> <p>Analysis of existing products</p> <p>Design area influence</p> <p>Completion of initial design ideas</p> <p>Final design produced from developed ideas</p> <p>The advantages/ disadvantages of using CAD/ CAM</p> <p>Manufacturing log</p>	<p>Pupils to investigate and analyse their product/project using self and peer assessment.</p> <p>Pupils have evaluated their design work throughout</p> <p>Pupils will be creative in analysing their own products and seeing how they can improve.</p> <p>Pupils will use feedback from others in producing their evaluation</p> <p>Pupils will use the grow sheet to assess how they have achieved and what they need to do to improve Final assessment carried out by teacher. Level awarded for designing, making and also an end of rotation test.</p>