

## **D&T Intentions**

## **KNOWLEDGE LED**



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Skill Development Technical drawing – orthographic and isometric. Safe use of a range of saws including coping and tenon saw with timber. Safe use of the pillar drill. Safe use of the belt sander. Safe use of files and sandpaper. Introduction to CAD CAM using 2D design. Safe use of the cooker – hob, grill and oven. Chopping skills. Technical drawing. Safe use of the coping saw with polymers. Safe use of the belt sander. Safe use of files, pillar drill, buffing wheel and wet and dry paper. Using CAD CAM to manufacture products on 2D design. Sewing. Sketching. Making circuits. Safe use of the cooker – hob, grill and oven. Technical drawing. Card modeling. CAD CAM. Use of adhesives. Safe use of tools and equipment including different types of saws and craft knives. Casting knowledge. Sketching ideas. Mark making onto materials using mixed media. Engraving. Painting using watercolours and acrylics. 3D materials layering.

Technical drawing. New and emerging technologies. Energy, systems and control, materials – properties, origins, examples and processes. Specialist technical principles including forces and stresses. Designing and making principles. AO1: Identify, investigate and outline design possibilities to address needs and wants.
AO2: Design and make prototypes that are fit for purpose.
AO3: Analyse and evaluate:
design decisions and outcomes, including for prototypes made by themselves and others wider issues in design and technology.
AO4: Demonstrate and apply knowledge and understanding of: technical principles designing and making principles.