



Year Group	7	Subject	Resistant Materials	Taught in		Rotation	
Title	Clock Project.						
Summary	Make a suitable clock for an identified client. Understanding of mass production using the vacuum forming process. Use of orthographic projection to communicate their design ideas (working drawing).						
Key Skills	Designing and making a clock from a detailed design brief (letter). Detailed analysis of the design brief and project requirements drawn from the project outline. Create suitable designs using Orthographic projection to communicate ideas visually. Introduction of ACCESS FM to label and explain designs. Appearance, Customer, Cost, Environment, Size, Safety, Function and Materials. Create a suitable and functional clock using tools and machinery safely and correctly. (Pillar Drill, Jigsaw, Hand file). Mould making, vacuum forming and mass production. Look in more detail at the properties of the materials used and why they are selected. Create a more detailed design specification based upon the design requirements and the findings from the design analysis. Evaluate their product based upon the design specification.						
Extra-Curricular	RIBA – Royal Institute of British Architects. Designing for specific environments. Poole Lighthouse. 'Space and Time' exhibition. February 2020. Arts University. Museum of Design in Plastic. Recycling.						
Cross-Curricular	ICT 2D Design. Maths. 2D sketching. Grid paper, accurate measurement. Drawing from different angles, showing 'relief 'on the design. Relief angle on mould to aid release. English. Writing a design specification. Identifying key words. Art. Colour (suitable), contrasting colours. Science. Properties of materials. Thermoplastic. Recycling. PSHCE. Teamwork, environmental issues. Recycling.						