



Year Group	6	Subject	Resistant Materials	Taught in		Rotation	
<b>Title</b>	Ball Bearing Game						
<b>Summary</b>	Pupils design and make a ball bearing game from their own design using plastic and the vacuum forming process.						
<b>Key Skills</b>	Designing for others. Communicating ideas, using simple orthographic drawings. Labelled designs to communicate ideas fully. Safely and correctly using tools and machinery to make a ball bearing game, including the moulding for the lid and use of the vacuum former. Use of a template to create a suitable ergonomic design. Creating an age appropriate and suitable design for a chosen client taking into account safety requirements when designing for children. Looking at the selection of appropriate materials. Creating a simple design specification for their design based upon their design analysis.						
<b>Extra-Curricular</b>	Lighthouse Pantomime design competition (November/December).						
<b>Cross-Curricular</b>	ICT 2D Design. English – Key words, Design Specification, Evaluation. Science – properties of materials (Thermoplastics). PSHCE, Empathy, designing for others.						

Year Group	6	Subject	Textiles	Taught in		Rotation	
<b>Title</b>	Handmade Buddy						
<b>Summary</b>	Recap health and safety in a practical area particularly aimed at textiles. Safety requirements for toys. Safety standards. Design and make a suitable 'buddy toy' for a child under the age of 13 years old. The toy must be round, made from faux fur and use felt and applique for its face. It must be safe and age appropriate and use neat hand sewing. Look at the user needs and suitability. Evaluate similar designs and identify what makes the toy safe and appropriate. Complete a simple design specification based upon the design requirements. Identify key equipment and how to use it safely. Simple selection of materials. Aesthetic properties, functional properties and comfort properties.						
<b>Key Skills</b>	Health and safety requirements. Material selection, Product analysis. Applique designing (to make an image or picture out of fabric). Hand sewing using a running stitch. Use of a template. Product evaluation. Key skills. Cutting, Pinning, Hand sewing, adding components, Embroidery, running stitch, Template making, Pattern cutting.						
<b>Extra-Curricular</b>							
<b>Cross-Curricular</b>	English – Product specification. Science – Material selection, material properties.						