

**DT**  
**Year 4/5**

**Term 1**  
**Structures: Bridges**

Vocab	Knowledge	Outcomes
<p>beam bridge arch bridge truss bridge strength technique corrugation lamination stiffness rigid factors stability visual appeal aesthetics joints mark out hardwood softwood wood file/rasp sandpaper/glasspaper bench hook/vice tenon saw/coping saw assemble material properties reinforce wood sourcing evaluate quality of finish accuracy</p>	<p>To understand some different ways to reinforce structures.</p> <p>To understand how triangles can be used to reinforce bridges.</p> <p>To know that properties are words that describe the form and function of materials.</p> <p>To understand why material selection is important based on their properties.</p> <p>To understand the material (functional and aesthetic) properties of wood.</p>	<p>Identify stronger and weaker shapes.</p> <p>Recognise that supporting shapes can help increase the strength of a bridge, allowing it to hold more weight.</p> <p>Identify beam, arch and truss bridges and describe their differences.</p> <p>Use triangles to create simple truss bridges that support a load (weight).</p> <p>Cut beams to the correct size, using a cutting mat.</p> <p>Smooth down any rough cut edges with sandpaper.</p> <p>Follow each stage of the truss bridge creation as instructed by their teacher.</p> <p>Complete a bridge, with varying ranges of accuracy and finish, supported by the teacher.</p> <p>Identify some areas for improvement, reinforcing their bridges as necessary.</p>

<b>Term 2</b> <b>Food: Adapting a recipe</b>		
Vocab	Knowledge	Outcomes
design criteria research texture innovative aesthetic measure cross-contamination diet processed packaging	To know that the amount of an ingredient in a recipe is known as the 'quantity'. To know that it is important to use oven gloves when removing hot food from an oven. To know the following cooking techniques: sieving, creaming, rubbing method, cooling. To understand the importance of budgeting while planning ingredients for biscuits.	Follow a recipe, with some support. Describe some of the features of a biscuit based on taste, smell, texture and appearance. Adapt a recipe by adding extra ingredients to it. Plan a biscuit recipe within a budget.
<b>Term 3</b> <b>Textiles: Fastenings</b>		
Vocab	Knowledge	Outcomes
Criteria Fastening Mock-up Fabric Fix Stitch Template	To know that a fastening is something that holds two pieces of material together. To know that different fastening types are useful for different purposes. To know that creating a mock-up (prototype) of their design is useful for checking ideas and proportions.	Identify the features, benefits and disadvantages of a range of fastening types. Write design criteria and design a sleeve that satisfies the criteria. Make a template for their book sleeve. Assemble their case using any stitch they are comfortable with.