

## Key Learning in Design and Technology: Year 6

Design				Make				Evaluate			
<ul style="list-style-type: none"> <li>Use pictures and words to convey what they want to design/make.</li> <li>Propose more than one idea for their product.</li> <li>Use kits/reclaimed materials to develop more than one idea.</li> <li>Model ideas with kits, reclaimed materials.</li> <li>Select appropriate technique explaining: First... Next... Last...</li> <li>Explore ideas by rearranging materials.</li> <li>Select pictures to help develop ideas.</li> <li>Use drawings to record ideas as they are developed.</li> <li>Add notes to drawings to help explanations.</li> <li>Describe their models and drawings of ideas and intentions.</li> </ul>				<ul style="list-style-type: none"> <li>Discuss their work as it progresses.</li> <li>Select materials from a limited range that will meet the design criteria.</li> <li>Select and name the tools needed to work the materials.</li> <li>Explain what they are making.</li> <li>Explain which materials they are using and why.</li> <li>Name the tools they are using.</li> <li>Describe what they need to do next.</li> </ul>				<ul style="list-style-type: none"> <li>Explore existing products and investigate how they have been made.</li> <li>Decide how existing products do/do not achieve their purpose.</li> <li>Talk about their design as they develop and identify good and bad points.</li> <li>Note changes made during the making process as annotation to plans/drawings.</li> <li>Say what they like and do not like about items they have made and attempt to say why.</li> <li>Discuss how closely their finished product meets their design criteria and how well it meets the needs of the user.</li> </ul>			
Autumn				Spring				Summer			
Food	Textiles	Structures	Mechanisms	Food	Textiles	Structures	Mechanisms	Food	Textiles	Structures	Mechanisms
<b>Topic:</b> Survival <b>End Product:</b> Bird house <b>Objective and skills:</b> <ul style="list-style-type: none"> <li>Use the correct terminology for tools materials and processes.</li> <li>Use bradawl to mark hole positions.</li> <li>Use hand drill to drill tight and loose fit holes.</li> <li>Cut strip wood, dowel, square section wood accurately to 1mm.</li> <li>Join materials using appropriate methods.</li> <li>Build frameworks to support mechanisms.</li> <li>Stiffen and reinforce complex structures.</li> </ul>								<b>Topic:</b> Oh! I do like to be beside the sea side <b>End Product:</b> Mechanical systems – Fairground rides <b>Objective and skills:</b> <ul style="list-style-type: none"> <li>Develop a technical vocabulary appropriate to the project.</li> <li>Use mechanical systems such as cams, pulleys and gears.</li> <li>Use electrical systems such as motors.</li> <li>Program, monitor and control using ICT.</li> </ul>			
<b>Resources:</b> Card, tape, wood of various sizes, hacksaws, table hooks, PVA glue and glue guns								<b>Resources:</b> Boxes, wood of various sizes, hacksaws, table hooks, cams and wooden wheels, PVA glue and glue guns			