

# Progression of Skills Design and Technology Lower KS2

<b>Materials and Components – Knowledge and Understanding</b>	<b>Developing, Planning and Communicating Ideas</b>	<ul style="list-style-type: none"> <li>Investigate similar products to the one to be made to give starting points for a design</li> <li>Draw/sketch products to help analyse and understand how products are made</li> <li>Think ahead about the order of their work and decide upon tools and materials</li> <li>Plan a sequence of actions to make a product</li> <li>Record the plan by drawing (labelled sketches) or writing</li> <li>Develop more than one design or adaptation of an initial design</li> <li>Propose realistic suggestions as to how they can achieve their design ideas</li> <li>Add notes to drawings to help explanations</li> </ul>
	<b>Food</b>	<ul style="list-style-type: none"> <li>Develop sensory vocabulary/knowledge using, smell, taste, texture and feel</li> <li>Analyse the taste, texture, smell and appearance of a range of foods</li> <li>Follow instructions</li> <li>Make healthy eating choices from and understanding of a balanced diet</li> <li>Join and combine a range of ingredients e.g. snack foods</li> <li>Work safely and hygienically</li> <li>Measure and weigh ingredients appropriately</li> </ul>
	<b>Textiles</b>	<ul style="list-style-type: none"> <li>Understand seam allowance</li> <li>Join fabrics using running stitch, over sewing, back stitch</li> <li>Explore fastenings and recreate some e.g. sew on buttons and make loops</li> <li>Prototype a product using J cloths</li> <li>Use appropriate decoration techniques e.g. appliqué(glued or simple stitches)</li> <li>Create a simple pattern</li> <li>Understand the need for patterns</li> </ul>
	<b>Construction</b>	<ul style="list-style-type: none"> <li>Incorporate a circuit with a bulb or buzzer into a model</li> <li>Create shell or frame structures, strengthen frames with diagonal struts</li> <li>Make structures more stable by giving them a wide base</li> <li>Prototype frame and shell structures</li> <li>Measure and mark square selection, strip and dowel accordingly to 1cm</li> <li>Use glue gun with close supervision (one to one)</li> </ul>
	<b>Sheet materials</b>	<ul style="list-style-type: none"> <li>Cut slots</li> <li>Cut internal shapes</li> <li>Use lolly sticks/card to make levers and linkages</li> <li>Use linkages to make movement larger or more varied.</li> <li>Use and explore complex pop ups</li> <li>Create nets</li> </ul>
	<b>Evaluating</b>	<ul style="list-style-type: none"> <li>Identify the strengths and weaknesses of their design ideas</li> <li>Decide which design idea to develop</li> <li>Consider and explain how the finished product could be improved</li> <li>Discuss how well the finished product meets the design criteria and how well it meets the needs the needs of the user.</li> </ul>