Key Learning in Design and Technology: Years 3 and 4

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Rey Learning in Design and Technology. Tears 5 and 4						
Design	Make	Evaluate				
Develop more than one design or adaptation of an initial design.	Prepare pattern pieces as templates for their design.	• Investigate similar products to the one to be made to give starting points for a design.				
Plan a sequence of actions to make a product.	• Cut slots.					
Record the plan by drawing using annotated sketches.	Cut internal shapes.	Draw/sketch products to help analyse and understand how products are made.				
 Begin to use cross-sectional and exploded diagrams. Use prototypes to develop and share ideas. 	Select from a range of tools for cutting shaping joining and finishing.	Research needs of user.				
Think ahead about the order of their work and decide upon tools and materials.	Use tools with accuracy.Select from techniques for different parts of the process.	Identify the strengths and weaknesses of their design ideas in relation to purpose/user.				
Propose realistic suggestions as to how they can achieve their	Select from materials according to their functional properties.	 Decide which design idea to develop. 				
design ideas.	Plan the stages of the making process.	Consider and explain how the finished product could be improved.				
Consider aesthetic qualities of materials chosen.	 Use appropriate finishing techniques. 	Discuss how well the finished product meets the design criteria				
Use CAD where appropriate.		of the user.				
		• Investigate key events and individuals in Design and Technology				

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Food	Textiles	Structures	Mechanical and Electrical Systems and ICT
 Develop sensory vocabulary/knowledge using, smell, taste, texture and feel. Analyse the taste, texture, smell and appearance of a range of foods (predominantly savoury). Follow instructions/recipes. Make healthy eating choices – use the <i>Eatwell plate</i>. Join and combine a range of ingredients. Explore seasonality of vegetables and fruit. Find out which fruit and vegetables are grown in countries/continents studied in Geography. Develop understanding of how meat/fish are 	 Develop vocabulary for tools materials and their properties. Understand seam allowance. Join fabrics using running stitch, over sewing, blanket stitch. Prototype a product using J cloths. Use prototype to make pattern. Explore strengthening and stiffening of fabrics. Explore fastenings (inventors?) and recreate some. Sew on buttons and make loops. Use appropriate decoration techniques. 	 Develop vocabulary related to the project. Create shell or frame structures. Strengthen frames with diagonal struts. Make structures more stable by giving them a wide base. Measure and mark square section, strip and dowel accurately to 1cm. 	 Develop vocabulary related to the project. Use mechanical systems such as gears, pulleys, levers and linkages. Incorporate a circuit into a model. Use electrical systems such as switches bulbs and buzzers. Use ICT to control products. Use lolly sticks/card to make levers and linkages. Use linkages to make movement larger or more varied.
reared/caught.			

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