

Progression of Skills: Design Technology - Year 4

Skills	
Developing, Planning and Communicating Ideas	
Across all units	Investigate similar products to the one to be made to give starting points for a design
	Draw/sketch products to help analyse and understand how products are made
	Think ahead about the order of their work and decide upon tools and materials
	Plan a sequence of actions to make a product
	Record the plan by drawing (labelled sketches) or writing
	Develop more than one design or adaptation of an initial design
	Propose realistic suggestions as to how they can achieve their design ideas
	Add notes to drawings to help explanations
Materials and Components - Knowledge and Understanding	
Food	Develop sensory vocabulary/knowledge using, smell, taste, texture and feel
	Analyse the taste, texture, smell and appearance of a range of foods
	Follow instructions
	Make healthy eating choices from and understanding of a balanced diet
	Join and combine a range of ingredients e.g. snack foods
	Work safely and hygienically
	Measure and weigh ingredients appropriately
Electrical Systems: Simple circuits and switches	Incorporate a circuit with a bulb or buzzer into a model
	Create shell or frame structures, strengthen frames with diagonal struts
	Make structures more stable by giving them a wide base
	Prototype frame and shell structures
	Measure and mark square selection, strip and dowel accordingly to 1cm
	Use glue gun with close supervision (one to one)
Mechanical Systems: levers and linkages	Cut slots
	Cut internal shapes
	Use lolly sticks/card to make levers and linkages
	Use linkages to make movement larger or more varied.
	Use and explore complex pop ups
	Create nets
Evaluation	
Across all units	Identify the strengths and weaknesses of their design ideas
	Decide which design idea to develop
	Consider and explain how the finished product could be improved
	Discuss how well the finished product meets the design criteria and how well it meets the needs the needs of the user.