	De	esign		Make	Evaluate
Key Stage 1 Key Learning	they want to design/make.		 Discuss their work as it progresses. Select materials from a limited range that will meet the design criteria. Select and name the tools needed to work the materials. Explain what they are making. Explain which materials they are using and why. Name the tools they are using. Describe what they need to do next. 		 Explore existing products and investigate how they have been made. Decide how existing products do/do not achieve their purpose. Talk about their design as they develop and identify good and bad points. Note changes made during the making process as annotation to plans/drawings. Say what they like and do not like about items they have made and attempt to say why. Discuss how closely their finished product meets their design criteria and how well it meets the needs of the user.
	Food	Textiles		Structures	Mechanisms
 Develop a food vocabulary using taste, smell, texture and feel. Group familiar food products e.g. fruit and vegetables. Explain where food comes from. Cut, peel, grate, chop a range of ingredients Work safely and hygienically. 		 Cut out shapes which I created by drawing row template onto the fabric Join fabrics by using estitch, glue, staples, ow tape. Decorate fabrics with a items e.g. buttons, bear braids, ribbons. 	und a c. e.g. running er sewing, attached	 Explore how to make structures stronger. Investigate different techniques for stiffening a variety of materials. Test different methods of enabling structures to remain stable. Join appropriately for different materials and situations e.g. glue, tape. 	 Join appropriately for different materials and situations e.g. glue, tape. Try out different ade fixings and their strengths and weaknesses. Make vehicles with construction kits which contain free running wheels. Use a range of materials to create models with wheels and axles e.g. tubes, dowel, cotton reels.

 Understand the need for a variety of foods in a diet. Measure and weigh food items, non-statutory measures e.g. spoons, cups. 	 Colour fabrics using a range of techniques e.g. fabric paints, printing, painting. 	Mark out materials to be cut using a template.Use a glue gun with close supervision.	 Roll paper to create tubes. Cut dowel using hacksaw and bench hook. Attach wheels to a chassis using an axle.
			 Mark out materials to be cut using a template. Fold, tear and cut paper and card. Cut along lines, straight and curved. Use a hole punch. Insert paper fasteners for card. Experiment with levers and sliders to
			find different ways of making things move in a 2D plane.

	Design		Make	Evaluate	
Lower Key Stage 2 Key Learning	Stage 2 Plan a sequence of actions to make a product. Record the plan by drawing using annotated sketches. Begin to use cross-sectional and exploded diagrams. Use prototypes to develop and share ideas. Think ahead about the order of their work and decide upon tools and materials. - Cut slots. Select from a joining and joi		Cut slots. Cut internal sh. Select from a r joining and fini Use tools with Select from tec process. Select from ma properties.	ange of tools for cutting shaping shing.	 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. Research needs of user. Identify the strengths and weaknesses of their design ideas in relation to purpose/user. 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 of the user. Investigate key events and individuals in Design and Technology.
	Food Texti		les	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 Eat well plate.		Develop vocabular materials and their Understand seam of Join fabrics using over sewing, blank Prototype a production Use prototype to material Explore strengthen stiffening of fabrical	r properties. allowance. running stitch, et stitch. t using J cloths. ake pattern. ing and	 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 lcm. 	 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.

 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 reared/caught. 	 Explore fastenings (inventors?) and recreate some. Sew on buttons and make loops. Use appropriate decoration techniques. 		Use linkages to make movement larger or more varied.
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	Desi	gn		Make	Evaluate
Upper Key Stage 2 Key Learning	Key Stage 2 Plan the sequence of work e.g. using a storyboard. Record ideas using annotated diagrams. Use models, kits and drawings to help formulate design ideas. Combine modelling and drawing to refine ideas. Devise step by step plans which can be read / followed by someone else.		 Make prototypes. Develop one idea in depth. Use researched information to inform decisions. Produce detailed lists of ingredients / components / materials and tools. Use a computer to model ideas. Select from and use a wide range of tools. Cut accurately and safely to a marked line. Select from and use a wide range of materials. Use appropriate finishing techniques for the project. Refine their product - review and rework/improve. 		 Research and evaluate existing products (including book and web based research). Consider user and purpose. Identify the strengths and weaknesses of their design ideas. Give a report using correct technical vocabulary. Consider and explain how the finished product could be improved related to design criteria. Discuss how well the finished product meets the design criteria of the user. Test on the user! Understand how key people have influenced design.
	Food	Texti	es	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 Eat well plate.		Develop vocabular materials and their Understand seam of Join fabrics using over sewing, blank Prototype a product Use prototype to m Explore strengthen stiffening of fabrics	properties. allowance. running stitch, et stitch. t using J cloths. ake pattern. ing and	 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 lcm. 	 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.

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