

\wedge	Textiles – Combining different	Food – celebrating culture and	Mechanisms – Pulleys or gears	Structures - Frame	Electrical systems – more
	fabric shapes	seasonality			complex switches
	Textiles – Combining different fabric shapes Designing • Generate innovative ideas by carrying out research. • Develop, model and communicate ideas through talking, drawing, templates, prototypes and computer-aided design. • Design fit for purpose, functional, appealing products for the intended user. Making • Produce detailed lists of equipment and fabrics. • Formulate step-by-step plans. • Select from and use a range of tools and equipment to make	 Food – celebrating culture and seasonality Designing Generate innovative ideas through research and discussion to develop a design brief and criteria for a design specification. Explore a range of initial ideas, and make design decisions to develop a final product. Use words, annotated sketches and information and communication technology to communicate ideas. Making Write a step-by-step recipe, including a list of ingredients, equipment and utensils Solet and was accounted and the standard and the standard	 Mechanisms – Pulleys or gears Designing Generate innovative ideas by carrying out research. Develop a simple design specification to guide their thinking. Develop and communicate ideas through discussion, annotated drawings, exploded drawings and drawings from different views. Making Produce detailed lists of tools, equipment and materials. Select from and use a range of tools and equipment to make products that that are accurately assembled and well finished. 	 Structures - Frame Designing Carry out research into user needs and existing products, using surveys, interviews, questionnaires and web-based resources. Develop a simple design specification to guide the development of their ideas and products, taking account of constraints including time, resources and cost. Generate, develop and model innovative ideas, through discussion, prototypes and annotated sketches. Making 	Electrical systems – more complex switches Designing • Use research to develop a design specification for a functional product that responds automatically to changes in the environment. • Generate and develop innovative ideas, sharing and classifying them through discussion. • Communicate ideas through annotated sketches, pictorial representations of electrical circuits or circuit diagrams. Making • Formulate a step-by-step plan to guide making, listing tools, equipment, materials and components.
Year 5	 products that are accurately assembled and well finished. Evaluating Investigate and analyse textile products linked to their final product. Compare the final product to the original design specification. Test products with the intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose. Technical knowledge and understanding A 3-D textile product can be made from a combination of accurately made pattern pieces, fabric shapes and different fabrics. Fabrics can be strengthened, stiffened and reinforced where appropriate. 	 Select and use appropriate utensils and equipment. Make, decorate and present the food product appropriately. Evaluating Carry out and record sensory evaluations of a range of relevant products and ingredients. Evaluate the final product with reference back to the design brief and design specification. Understand how key chefs have influenced eating habits to promote varied, healthy diets. Technical knowledge and understanding Know how to use utensils and equipment including heat sources Understand about seasonality in relation to food products. 	 Evaluating Compare the final product to the original design specification. Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose. Consider the views of others to improve their work. Investigate famous manufacturing and engineering companies relevant to the project. Technical knowledge and understanding Understand that mechanical and electrical systems have an input, process and an output. Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement. 	 Formulate a clear plan. Formulate a clear plan. Competently select from and use appropriate tools to accurately measure, mark out, cut, shape and join. Use suitable finishing and decorative techniques. Evaluating Investigate and evaluate a range of existing frame structures. Critically evaluate their products against their design specification, intended user and purpose. Research key events and individuals relevant to frame structures. Technical knowledge and understanding Understand how to strengthen, stiffen and reinforce 3-D frameworks. 	 Competently select and accurately assemble materials, and securely connect electrical components. Create and modify a computer control program to enable an electrical product to work automatically. Evaluating Continually evaluate and modify the working features of the product. Test the system to demonstrate its effectiveness. Investigate famous inventors who developed ground-breaking electrical systems and components. Technical knowledge and understanding Understand and use electrical systems in their products. Apply their understanding of computing to program, monitor and control their products