Bruche Primary School Design and Technology



Curriculum INTENT

Bruche Primary School- Design and Technology progression through EYFS EAD: Creating with Materials & Being Imaginative and Expressive



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Playing & Exploring - Engagement	Active Learning - Motivation	Creating & Thinking Critically - Thinking		
Finding out & exploring	Being involved & concentrating	 Having their own ideas (creative thinking) 		
 Playing with what they know 	Keep on trying	 Making links (building theories) 		
 Being willing to 'have a go' 	 Enjoying achieving what they set out to do 	 Working with ideas (critical thinking) 		

ELG

- Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function
- Share their creations, explaining the process they have used
- Make use of props and materials when role-playing characters in narratives and stories

Focus	Designing	Making	Evaluating	Technical Skills	Food Technology	Vocabulary- To be used daily.
Nursery Skills	Develop own ideas & decide which materials to use to express them	Use various construction materials, e.g. joining pieces, stacking vertically and horizontally, balancing, making enclosures and creating spaces Use available resources to create props or creates imaginary ones to support play	Notice what other children & adults do, mirroring what is observed, adding variations & then doing it spontaneously	Develop new skills & techniques Use tools for a purpose	Talk about the differences between materials & changes they notice Make healthy choices	Like/ dislike Use, cut, snip, press, fold, join, fix, glue, stick, bumpy, smooth, shiny, hard, soft, rough, fruit, vegetables, healthy, unhealthy, different.
Nursery Knowledge	Autumn 1 Colours and feelings	Autumn 2 Families and Celebrations	Spring 1 Traditional Tales and farm animals	Spring 2 Growing and changing	Summer 1 Adrift	Summer 2 Chester Zoo
	To sort by colour a range of objects and materials. Can make snips in paper using a two-handed scissor grip. Can use glue to join pieces	Can build a representation of own home using a mixture of materials. Can use a range of toolsrolling pin, cutters, extruders, scissors, hole punch, Sellotape dispenser independently.	Can match animals to the food they produce. Can explain what healthy and unhealthy means.	Can use a range of materials to join, glue, string, cotton, Sellotape Can make own designs from junk modelling materials	•Can use a variety of different materials to create a variety of homes and structures such as caravans, houses, barges, mud huts etc.	Can create animal habitats using a range of different materials and textures and explain their choices. Can use a range of toolsrolling pin, cutters, extruders, scissors, hole punch, Sellotape dispenser independently and with accuracy.

Children to be exposed to key vocabulary daily in provision. High quality resources will be provided for daily accessibility. Playdough/ Malleable/Art/building/small world and outdoor provisions will provide a wealth of opportunity. Resources will be enhanced and developed as children develop their skill set.

Bruche Primary School- Design and Technology progression through EYFS EAD: Creating with Materials & Being Imaginative and Expressive



Playing & Exploring - Engagement	Active Learning - Motivation	Creating & Thinking Critically - Thinking		
Finding out & exploring	Being involved & concentrating	Having their own ideas (creative thinking)		
 Playing with what they know 	Keep on trying	Making links (building theories)		
 Being willing to 'have a go' 	 Enjoying achieving what they set out to do 	Working with ideas (critical thinking)		

ELG

- Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function
- Share their creations, explaining the process they have used
- Make use of props and materials when role-playing characters in narratives and stories

Focus	Designing	Making	Evaluating	Technical	Skills	Food Techno	ology	Vocabul	ary- To be used daily.
Reception Skills	through experimentation with diverse materials to express & communicate their discoveries & understanding • Create collaboratively sharing ideas, resources & skills	knowledge & understanding of tools & materials to explore their nterests & enquiries & develop their thinking • Create representations both imaginary & real-life deas, events, people & objects	Express & communicates working theories, feelings & understandings Responds imaginatively to art works & objects Return to & build on previous learning, refining ideas & developing their ability to represent them Discuss problems & how they might be solved	technique materials • Use too indeper			Cutting, measure, folding, joining, gluing, tearing, decorate, printing, tools, strong, shape, materials, textiles, wheels, equipment, like, dislike, improve, better, cutting, plants, animals, farming, foods.		
Reception Knowledge	Autumn 1 All about Me	Autumn 2 Families and Celebration	ons Up and Dow	vn	Sprin Growing and	~	Summer 1 Fairy Tales/ Adrift and Home	– Houses	Summer 2 Chester Zoo
	Can work together to make structures eg building a house/home/school. Can use colour and materials to express how they are feeling through own creations using a variety of textures.	 Can use an increasing range of tools such as; building tools and garden tools with accuracy. Begins to talk about the effect of exercise and foo on their health. 	they work and what have used and why.	in how they ing ruction o, stickle to make	comes from and experie growing their own vegetables, harvesting, preparing, and eating. • Can brush own teeth a talk about the important good oral health.		Can draw designs things that they buil label each element. Can verbally evaluwork and explain which good and one thing could make it better.	d and ate their nat is that	•To use a range of materials and split pins to connect and join materials to make a moving puppet.
	Food		Mechani	isms			1	Structure	es

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Year 1: Design and Technology skills progression KS1: POS

- Use the basic principles of a healthy and varied diet to prepare dishes.
- To understand where food comes from.
- Design purposeful, functional, appealing products for themselves and other users based on design criteria.
- Select from and use a range of tools and equipment to perform practical tasks [for example cutting, shaping, joining and finishing].
- Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.
- Explore and evaluate a range of existing products.
- Explore and use mechanisms [for example levers, sliders, wheels and axles], in their products.
- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.
- Generate, develop, model and communicate their ideas through discussion, annotated sketches and
- Select from tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] accurately.
- Investigate and analyse a range of existing products.
- Evaluate their ideas and products against their own design criteria.

Make

- Use simple utensils and equipment to peel, cut and squeeze safely.
- Select from a range of fruit and vegetables according to their characteristics
- e.g. colour, texture and taste to create a chosen product.
- Plan by suggesting what to do next.
- Select and use tools, explaining their choices, to cut, shape and join paper and card.
- Use simple finishing techniques suitable for the product they are creating.
- Select and use tools, skills and techniques, explaining their choices.
- Select new and reclaimed materials and construction kits to build their structures.

Design

- Design appealing products for a particular user based on simple design criteria.
- Communicate these ideas through talk and drawings.
- Generate ideas based on simple design criteria and their own experiences, explaining what they could
- Develop, model and communicate their ideas through drawings and mock-ups with card and paper.

Evaluate

- Taste and evaluate a range of fruit and vegetables to determine the intended users' preference.
- Explore a range of existing books and everyday products that use simple sliders and levers.
- Evaluate their product by discussing how well it works in relation to the purpose and the user and whether it meets design criteria.
- Explore a range of existing freestanding structures in the school and local environment e.g. everyday products and buildings.

Technical Knowledge

- Understand where a range of fruit and vegetables come from e.g. farmed or grown at home.
- Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and vegetables are part of the Eatwell plate.
- Know and use technical and sensory vocabulary relevant to the project.
- Explore and use sliders and levers.
- Understand that different mechanisms produce different types of movement.
- Know how to make freestanding structures stronger, stiffer and more stable.

	Year 1 – End points				
Food – Preparing	Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and vegetables are part of 'The eatwell plate'.				
fruit and vegetables	Know and use technical and sensory vocabulary relevant to the project.				
Mechanisms – Sliders	Explore and use sliders and levers.				
and Levers	Understand that different mechanisms produce different types of movement				
Structures –	Know how to make freestanding structures stronger, stiffer and more stable.				
Freestanding	Know and use technical and sensory vocabulary relevant to the project.				
structures					

Year 2: Design and Technology skills progression KS1: POS Design Use the basic principles of a healthy and varied diet to prepare dishes. Design appealing products for a particular user based on simple design criteria. To understand where food comes from. Generate initial ideas and design criteria through investigating a variety of fruit and vegetables. Design purposeful, functional, appealing products for themselves and other users based on design criteria. Design a functional and appealing product for a chosen user and purpose based on simple design criteria. Generate, develop, model and communicate their ideas as appropriate through talking, drawing, templates, Select from and use a range of tools and equipment to perform practical tasks [for example cutting, shaping, mock-ups and information and communication technology. joining and finishing]. Generate initial ideas and simple design criteria through talking and using own experiences. Select from and use a wide range of materials and components, including construction materials, textiles and Develop and communicate ideas through talk, drawings and mock-ups. ingredients, according to their characteristics. Explore and evaluate a range of existing products. Explore and use mechanisms [for example levers, sliders, wheels and axles], in their products. Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. Generate, develop, model and communicate their ideas through discussion, annotated sketches and Select from tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] accurately. Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria. Make **Evaluate** Taste and evaluate a range of fruit and vegetables to determine the intended user's preferences. Use simple utensils and equipment to e.g. peel, cut, slice, squeeze, grate and chop safely. Select from a range of fruit and vegetables according to their characteristics e.g. colour, texture and taste to Evaluate ideas and finished products against design criteria, including intended user and purpose. create a chosen product. Explore and evaluate a range of existing textile products relevant to the project being undertaken. Select from and use a range of tools and equipment to perform practical tasks such as marking out, cutting, Evaluate their ideas throughout and their final products against original design criteria. joining and finishing. Explore and evaluate a range of products with wheels and axles. Select from and use textiles according to their characteristics. Select from and use a range of tools and equipment to perform practical tasks such as cutting and joining to allow movement and finishing. Select from and use a range of materials and components such as paper, card, plastic and wood according to Technical Knowledge Understand where a range of fruit and vegetables come from e.g. farmed or grown at home. Understand how simple 3-D textile products are made, using a template to create two identical shapes. Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and Understand how to join fabrics using different techniques e.g. running stitch, glue, over stitch, stapling. vegetables are part of the Eatwell plate. Explore different finishing techniques e.g. using painting, fabric crayons, stitching, sequins, buttons and Know and use technical and sensory vocabulary relevant to the project. ribbons. Explore and use wheels, axles and axle holders. Distinguish between fixed and freely moving axles.

	Year 2 – End points				
Food – Preparing	 Understand where a range of fruit and vegetables come from e.g. farmed or grown at home. 				
fruit and vegetables	 Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and vegetables are part of 'The eatwell plate'. 				
	Know and use technical vocabulary relevant to the project.				
Textiles- Templates	 Understand how simple 3-D textile products are made, using a template to create two identical shapes. 				
and Joining	 Understand how to join fabrics using different techniques e.g. running stitch, glue, over stitch, stapling. 				
Techniques	Explore different finishing techniques e.g. using painting, fabric crayons, stitching sequins, buttons and ribbons.				
Mechanisms- Wheels	Explore and use wheels, axles and axle holders.				
and Axels	Distinguish between fixed and freely moving axles.				

Year 3: Design and Technology skills progression KS2-POS Design To understand and apply the principles of a healthy and varied diet Generate realistic ideas and their own design criteria through discussion, focusing on the needs of the Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques To understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and Use annotated sketches and prototypes to develop, model and communicate ideas. Generate and clarify ideas through discussion with peers and adults to develop design criteria including To use research and develop design criteria to inform the design of innovative, functional, appealing products appearance, taste, texture and aroma for an appealing product for a particular user and purpose. that are fit for purpose, aimed at particular individuals or groups. Use annotated sketches and appropriate information and communication technology, such as web-To generate, develop, model and communicate their ideas through discussion, annotated sketches, crossbased recipes, to develop and communicate ideas. sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. Develop ideas through the analysis of existing products and use annotated sketches and prototypes to Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, model and communicate ideas. shaping, joining and finishing], accurately. Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria and consider the views of others to improve To understand how key events and individuals in design and technology have helped shape the world apply their understanding of how to strengthen, stiffen and reinforce more complex structures To understand and use mechanical systems in their products. To understand and use electrical systems in their products. Apply their understanding of computing to program, monitor and control their products. Make **Evaluate** Order the main stages of making. Investigate and analyse books and, where available, other products with lever and linkage mechanisms. Select from and use finishing techniques suitable for the product they are creating. Evaluate their own products and ideas against criteria and user needs, as they design and make. Plan the main stages of a recipe, listing ingredients, utensils and equipment. Carry out sensory evaluations of a variety of ingredients and products. Record the evaluations using e.g. Select and use appropriate utensils and equipment to prepare and combine ingredients. tables and simple graphs. Evaluate the ongoing work and the final product with reference to the design criteria and the views of Select from a range of ingredients to make appropriate food products, thinking about sensory Select and use appropriate tools to measure, mark out, cut, score, shape and assemble with some Investigate and evaluate a range of existing shell structures including the materials, components and techniques that have been used. Explain their choice of materials according to functional properties and aesthetic qualities. Test and evaluate their own products against design criteria and the intended user and purpose. Use finishing techniques suitable for the product they are creating. **Technical Knowledge** Develop and use knowledge of how to construct strong, stiff shell structures. Understand and use lever and linkage mechanisms. Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D Distinguish between fixed and loose pivots. Know how to use appropriate equipment and utensils to prepare and combine food. Know and use technical vocabulary relevant to the project. Know about a range of fresh and processed ingredients appropriate for their product, and whether they Know and use relevant technical and sensory vocabulary appropriately. are grown, reared or caught.

	Year 3 — End points			
Levers and Linkages	Understand and use lever and linkage mechanisms.			
(Mechanical Systems)	Distinguish between fixed and loose pivots.			
Cooking and	Know how to use appropriate equipment and utensils to prepare and combine food.			
Nutrition (Healthy				
and Varied Diet)				
Shell Structures	Develop and use knowledge of how to construct strong, stiff shell structures.			
	Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes.			
	Know and use technical vocabulary relevant to the project.			

Year 4: Design and Technology skills progression KS2-POS Design To understand and apply the principles of a healthy and varied diet Gather information about needs and wants, and develop design criteria to inform the design of Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques products that are fit for purpose, aimed at particular individuals or groups. Generate, develop, model and communicate realistic ideas through discussion and, as appropriate, To understand seasonality, and know where and how a variety of ingredients are grown, reared, caught annotated sketches, cross-sectional and exploded diagrams. and processed. To use research and develop design criteria to inform the design of innovative, functional, appealing Generate realistic ideas through discussion and design criteria for an appealing, functional product fit products that are fit for purpose, aimed at particular individuals or groups. for purpose and specific user/s. Produce annotated sketches, prototypes, final product sketches and pattern pieces To generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. To understand how key events and individuals in design and technology have helped shape the world apply their understanding of how to strengthen, stiffen and reinforce more complex structures To understand and use mechanical systems in their products. To understand and use electrical systems in their products. Apply their understanding of computing to program, monitor and control their products. Make Evaluate Order the main stages of making. Investigate and analyse books, videos and products with pneumatic mechanisms. Select from and use appropriate tools with some accuracy to cut and join materials and components Evaluate their ideas and products against their own design criteria and identify the strengths and areas such as tubing, syringes and balloons. for improvement in their work. Select from and use finishing techniques suitable for the product they are creating. Investigate a range of 3-D textile products relevant to the project. Select from and use materials and components, including construction materials and electrical Take into account others' views. components according to their functional properties and aesthetic qualities. Understand how a key event/individual has influenced the development of the chosen product and/or Select and use a range of appropriate tools with some accuracy e.g. cutting, joining and finishing. fabric. Select fabrics and fastenings according to their functional characteristics e.g. strength, and aesthetic qualities e.g. pattern. Know how to strengthen, stiffen and reinforce existing fabrics. **Technical Knowledge** Understand and use pneumatic mechanisms. Understand how to securely join two pieces of fabric together. Know and use technical vocabulary relevant to the project. Understand the need for patterns and seam allowances. Understand and use electrical systems in their products, such as series circuits incorporating switches, bulbs and buzzers. Apply their understanding of computing to program and control their products.

	Year 4 – End points		
Pneumatics	Pneumatics • Understand and use pneumatic mechanisms.		
Electrical Systems-	Electrical Systems • Understand and use electrical systems in their products, such as series circuits incorporating switches, bulbs and buzzers.		
Circuits and Switches	Apply their understanding of computing to program and control their products.		
Textiles- 2D shapes	Textiles- 2D shapes • Know how to strengthen, stiffen and reinforce existing fabrics.		
to a 3D product	 Understand how to securely join two pieces of fabric together. 		
	Understand the need for patterns and seam allowances.		

CORE VALUES: CHILDREN FIRST

RESILIENCE

PIONEERING

Year 5: Design and Technology skills progression KS2-POS Design To understand and apply the principles of a healthy and varied diet Generate innovative ideas by carrying out research using surveys, interviews, questionnaires and web-Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques based resources. Develop a simple design specification to guide their thinking. To understand seasonality, and know where and how a variety of ingredients are grown, reared, caught Develop, model and communicate ideas through talking, drawing, templates, mock-ups and prototypes and processed. To use research and develop design criteria to inform the design of innovative, functional, appealing and, where appropriate, computeraided design. products that are fit for purpose, aimed at particular individuals or groups. Design purposeful, functional, appealing products for the intended user that are fit for purpose based on a simple design specification. To generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. Generate innovative ideas through research and discussion with peers and adults to develop a design brief and criteria for a design specification. Explore a range of initial ideas, and make design decisions to Select from and use a wider range of tools and equipment to perform practical tasks [for example, develop a final product linked to user and purpose. cutting, shaping, joining and finishing], accurately. Select from and use a wider range of materials and components, including construction materials, Use words, annotated sketches and information and communication technology as appropriate to textiles and ingredients, according to their functional properties and aesthetic qualities. develop and communicate ideas. Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. To understand how key events and individuals in design and technology have helped shape the world apply their understanding of how to strengthen, stiffen and reinforce more complex structures To understand and use mechanical systems in their products. To understand and use electrical systems in their products. Make **Evaluate** Produce detailed lists of tools, equipment and materials. Formulate step-by-step plans and, if Compare the final product to the original design specification. appropriate, allocate tasks within a team. Test products with intended user and critically evaluate the quality of the design, manufacture, Select from and use a range of tools and equipment to make products that that are accurately functionality and fitness for purpose. assembled and well finished. Work within the constraints of time, resources and cost. Investigate famous manufacturing and engineering companies relevant to the project. Write a step-by-step recipe, including a list of ingredients, equipment and utensils. Investigate and analyse textile products linked to their final product. Compare the final product to the Select and use appropriate utensils and equipment accurately to measure and combine appropriate original design specification. Test products with intended user and critically evaluate the quality of the design, manufacture, Make, decorate and present the food product appropriately for the intended user and purpose. functionality and fitness for purpose. Evaluate the final product with reference back to the design brief and design specification, taking into account the views of others when identifying improvements. **Technical Knowledge** A 3-D textile product can be made from a combination of accurately made pattern pieces, fabric shapes Understand that mechanical and electrical systems have an input, process and an output. and different fabrics. Understand how gears and pulleys can be used to speed up, slow down or change the direction of Fabrics can be strengthened, stiffened and reinforced where appropriate. movement. Know how to use utensils and equipment including heat sources to prepare and cook food. Know and use technical vocabulary relevant to the project Understand about seasonality in relation to food products and the source of different food products.

	Year 5 – End points				
Mechanical Systems	Understand that mechanical and electrical systems have an input, process and an output.				
(Pulleys and Gears)	Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement.				
Textiles (Combining	A 3-D textile product can be made from a combination of accurately made pattern pieces, fabric shapes and different fabrics.				
different fabrics)	Fabrics can be strengthened, stiffened and reinforced where appropriate.				
Food and Nutrition	Know how to use utensils and equipment to prepare and cook food.				
(Celebrating Culture					
and Seasonality)	• Understand about seasonality in relation to food products and the source of different food products				

Year 6: Design and Technology skills progression KS2- POS Design To understand and apply the principles of a healthy and varied diet Use research to develop a design specification for a functional product that responds automatically to changes Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques in the environment. Take account of constraints including time, resources and cost. To understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and Generate and develop innovative ideas and share and clarify these through discussion. Communicate ideas through annotated sketches, pictorial representations of electrical circuits or circuit To use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. Carry out research into user needs and existing products, using surveys, interviews, questionnaires and web-To generate, develop, model and communicate their ideas through discussion, annotated sketches, crossbased resources. sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. Develop a simple design specification to guide the development of their ideas and products, taking account of Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, constraints including time, resources and cost. shaping, joining and finishing], accurately. Generate, develop and model innovative ideas, through discussion, prototypes and annotated sketches. Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. To understand how key events and individuals in design and technology have helped shape the world apply their understanding of how to strengthen, stiffen and reinforce more complex structures To understand and use mechanical systems in their products. To understand and use electrical systems in their products. Apply their understanding of computing to program, monitor and control their products. Make **Evaluate** Formulate a step-by-step plan to guide making, listing tools, equipment, materials and components. Continually evaluate and modify the working features of the product to match the initial design specification. Competently select and accurately assemble materials, and securely connect electrical components to Test the system to demonstrate its effectiveness for the intended user and purpose. produce a reliable, functional product. Investigate famous inventors who developed ground-breaking electrical systems and components. Create and modify a computer control program to enable an electrical product to work automatically in Investigate and evaluate a range of existing frame structures. response to changes in the environment. Critically evaluate their products against their design specification, intended user and purpose, identifying Competently select from and use appropriate tools to accurately measure, mark out, cut, shape and join strengths and areas for development, and carrying out appropriate tests. construction materials to make frameworks. Research key events and individuals relevant to frame structures. Use finishing and decorative techniques suitable for the product they are designing and making. Technical Knowledge Understand and use electrical systems in their products. Apply their understanding of computing to program, monitor and control their products. Know and use technical vocabulary relevant to the project. Understand how to strengthen, stiffen and reinforce 3-D frameworks. Know and use technical vocabulary relevant to the project.

	Year 6 – End points		
Electrical Systems	Understand and use electrical systems in their products.		
(More Complex	Apply their understanding of computers to program, monitor and control their products.		
Switches and Circuits)	Understand about seasonality in relation to food products and the source of different food products.		
	698		
Textiles (Framed	Understand how to strengthen, stiffen and reinforce 3-D frameworks.		
Structures)			