

Design and Technology at St Andrew's Primary School

Whole school Learning Links Theme	How does the developing world and existing products influence the way we innovatively design, make and evaluate a product?		
Key Curriculum Drivers	Knowledge	Aspirations and Possibilities	Wellbeing
Year 1	Study 1	Study 2	Continuous Provision
Statutory Focus	<ul style="list-style-type: none"> *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] *evaluate their ideas and products against design criteria 	<ul style="list-style-type: none"> *generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology *select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] *explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. 	Design, make and evaluate
Title	Make our own weather station	Moving Pictures	
Local Links			
Hook		Design a Christmas/mother's day card	
Year 2			
Statutory Focus	<ul style="list-style-type: none"> *design purposeful, functional, appealing products for themselves and other users based on design criteria *select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics *evaluate their ideas and products against design criteria 	<ul style="list-style-type: none"> *generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology *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 	Design, make and evaluate
Title	Design Waterproof Fire Fighter Uniform	Soups and smoothies	

Local Links	Bishop Auckland Fire Brigade	School Allotments	
Year 3			
Statutory Focus	<ul style="list-style-type: none"> *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 * 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 	<ul style="list-style-type: none"> * 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 * 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 *apply their understanding of how to strengthen, stiffen and reinforce more complex structures 	Design, make and evaluate
Title	Biscuit Design	Egg-citing egg package competition	
Local Links			
Hook	Design, bake and sell for Christmas Fair	Easter Service announce winners and prizes on offer	
Post Learning Task	Create a poster/leaflet that will persuade buyers to buy your biscuit.		
Year 4			
Statutory Focus	<ul style="list-style-type: none"> *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 materials and components, including construction materials, 	<ul style="list-style-type: none"> *generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design 	Design, make and evaluate

	<p>textiles and ingredients, according to their functional properties and aesthetic qualities</p> <p>*evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</p>	<p>*select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</p> <p>*evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</p> <p>understand how key events and individuals in design and technology have helped shape the world</p> <p>* understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors</p>	
Title	Long boat Design	Electric Engines	
Local Links	River Gaunless - test sight	Locomotion	
Year 5			
Statutory Focus	<p>*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</p> <p>* 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</p> <p>*investigate and analyse a range of existing products</p> <p>*evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</p>	<p>* generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</p> <p>* select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</p> <p>* investigate and analyse a range of existing products</p> <p>*evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</p>	Design, make and evaluate

		<ul style="list-style-type: none"> * apply their understanding of how to strengthen, stiffen and reinforce more complex structures * understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] 	
Title	Bread	Levers and Linkages – Christmas Cards	
Local Links	Tesco Bakery		
Post Learning Task	Write a pitch for your product to present to Dragon's Den.		
Year 6			
Statutory Focus	<ul style="list-style-type: none"> *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 *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 * evaluate their ideas and products against their own design criteria and consider the views of others to improve their work * 	<ul style="list-style-type: none"> *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 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 * understand how key events and individuals in design and technology have helped shape the world * understand and use electrical systems in their products [for example, series circuits 	Design, make and evaluate

		incorporating switches, bulbs, buzzers and motors] *apply their understanding of computing to program, monitor and control their products.	
Title	Textiles – design, make and sell product at Christmas Fair	Durham Bridges	
Local Links		Locomotion	