Friars Primary School and Nursery

Design and Technology - National Curriculum Coverage by Year Group

Design and Technology Summer 1 Summer 2 Autumn 1 Autumn 2 Spring 1 Spring 2 (EYFS: Expressive Arts & Design: Being Imaginative and Expressive, Creating with Materials) Design & Technology is taught through interactions in continuous provision: child initiated and adult initiated through large and small scale activities inside and out. There are also opportunities for children to develop fine motor control skills through threading beads, using scissors etc. Throughout their time in nursery, children will be supported and encouraged to: ursery Use 3D and 2D structures to explore materials and/or to express ideas • Use various construction materials, e.g. joining pieces, stacking vertically and horizontally, balancing, making enclosures and creating spaces Use tools for a purpose Use everyday materials to explore, understand and represent their world – ideas, interests and fascinations Use available resources to create props or creates imaginary ones to support play

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A	utumn 1	Autumn 2 Christmas Crafts	Spring 1 <i>Links to literacy</i> <i>Blue Penguin:</i> Zig zag books	Spring 2: Links to literacy Yucky Worms: Making minibeasts Easter crafts	Summer 1 <i>Links to literacy:</i> <i>Errol's Garden:</i> Designing gardens	Summer 2 Links to literacy The Naughty bus: Junk modelling vehicles Hyde Hall visit: Craft activities on site
otion s & Design: Being sive, Creating with sise fig fig fig fig fig fig fig fig fig fig	es various constructes, stacking vertic ancing, making end ces es tools for a purpo	in line with their current inten- tion materials, e.g. joining ally and horizontally, closures and creating ose ces to create props or	parts to express and co discoveries and undersi Uses available resource creates imaginary ones	ted by adults in the setting of howledge and and materials to explore iries and develop their as through verse materials, e.g. loose mmunicate their tanding. es to create props or to support play to art works and objects, likes dinosaurs, that this [child physically I looks like a mouth	during their time in provision Uses their increasing k understanding of tools their interests and enqu thinking Develops their own ide with diverse materials, and communicate their understanding. Uses available resourc creates imaginary ones	nowledge and and materials to explore uiries and develop their as through experimentation e.g. loose parts to express discoveries and es to create props or to support play y to art works and objects, <i>likes dinosaurs, that</i> <i>e this [child physically</i> <i>g looks like a mouth</i>

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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		Making free standing structures – igloo		Sliders and Leavers – pop up plants		Food DT - Fruit salad
Year 1 POR = Power of Reading		 Design - design purposeful, functional, appealing products for themselves and other users based on design criteria Make - 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 Evaluate - explore and evaluate a range of existing products against design criteria Technical knowledge- build structures, exploring how they can be made stronger, stiffer and more stable 		Design - design purposeful, functional, appealing products for themselves and other users based on design criteria Make - 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 Evaluate - explore and evaluate a range of existing products		select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics use the basic principles of healthy and varied diet to prepare dishes understand where food comes from.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
		Textiles – Designing a puppet		Mechanisms - Design, create & evaluate model cars		Create a healthy snack/meal – salad wraps
Year 2		 Design - design purposeful, functional, appealing products for themselves and other users based on design criteria generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology Make - select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] 		 Design - generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology Make - 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 Evaluate - evaluate their ideas and products against design criteria Technical knowledge - explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. 		 Design - design purposeful, functional, appealing products for themselves and other users based on design criteria Cooking and nutrition - use the basic principles of a healthy and varied diet to prepare dishes understand where food comes from.

Design and make a medicine box for a particular purposeDesign and make a mechanism – Easter CardMaking Pizza (Roman Taste Testing) Make products applying knowledge of nutrition and health and safety practices whilst working with for purpose, aimed at particular individuals orMaking Pizza (Roman Taste Testing) Make products that are fit for purpose, aimed at particular individuals or	
groups groups groups generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design generate, develop, model and exploded diagrams, prototypes, pattern pieces and computer-aided design Design - use research and develop design oriticate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design generate, develop, model and computer-aided design Make - select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately Make - select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately Make - select from and use a wider range of materials and computer-aided design select from and use a wider range of materials and analyzes a range of materials and analyzes a range of existing products select from and use a wider range of materials, textiles and ingredients, according to their functional properties and analyzes a range of existing products select from and use a wider range of materials and computer-aided design Evaluate - investigate and analyzes a range of existing products evaluate their ideas and products against their own design oritical and consider their work of others to improve evaluate their ideas and products against their own design oritical and consider the views of others to improve evaluate their ideas and products against their own	



	the views of others to improve their work	Evaluate - 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



	Autumn 1	Autumn 2	Spring 1 & 2	Summer 1	Summer 2
-		Cooking and nutrition – Greek Bread Preparation olives,	Make do and mend - Toys		Electrical Circuits- alarms
		cheese, design bread, plait fold, roll etc	Design - 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		Designing • Gather information about needs and wants, and develop design criteria to inform the design of products that are fit for purpose, aimed at particular individuals or groups.
r 4			generate, develop, model and communicate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design		Generate, develop, model and communicate realistic ideas through discussion and, as appropriate, annotated sketches, cross- sectional and exploded diagrams.
Year			Make - 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		Making • Order the main stages of making. • Select from and use tools and equipment to cut, shape, join and finish with some accuracy. • Select from and use materials and components, including construction materials and electrical components according to their functional properties and aesthetic qualities.
			qualities Evaluate - investigate and analyse a range of existing products		Evaluating • Investigate and analyse a range of existing battery-powered products.
			evaluate their ideas and products against their own design criteria and consider the views of others to improve their work		Evaluate their ideas and products against their own design criteria and identify the strengths and areas for improvement in their work.



understand how key events and individuals in design and technology have helped shape the world Technic underst Underst electrica products circuits i switches buzzers. Apply th computi control t	their understanding of ting to program and their products. • and use technical ulary relevant to the

	Autumn 1 & 2	Spring 1	Spring 2	Summ	er 1 & 2
Year 5	ShadufsDesign - 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 groupsgenerate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided designMake - select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accuratelyselect from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualitiesEvaluate - investigate and analyse a range of existing productsevaluate their ideas and products against their own design criteria and consider the views of others to improve their workunderstand how key events and individuals in design and technology have helped shape the world		 Scented drawstring bags- sewing Design - use research and develop design or titeria 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, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design Make - 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, according to their functional properties and aesthetic qualities Evaluate - 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 	Food Technology – outdoor learning – Tudor Stew	Tudor Houses

			linkages]				
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	Autumn 1 & 2	Spring 1	Spring 2	Summ	er 1 & 2
	Victorian Cushions - Textiles	• •		Electrical Board Games	Cooking – Bake Off (healthy snacks)
Year 6	 Design - 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, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design Make - 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 Evaluate - 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 			 Design - 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, crosssectional and exploded diagrams, prototypes, pattern pieces and computer-aided design Make - 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 aesthetic qualities Evaluate - 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 	Cooking and nutrition - understand and apply the principles of a healthy and varied diet prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed

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Design and Technology - National Curriculum Coverage by Year Group

Technical knowledge - apply their understanding of how to strengthen, stiffen and reinforce more complex structures	Technical knowledge - apply their understanding of how to strengthen, stiffen and reinforce more complex structures apply their understanding of	
apply their understanding of computing to program, monitor and control their products.	computing to program, monitor and control their products.	