



The Bishop Harvey Goodwin Long Term Plan D&T

Cycle A DESIGN Something for...? Somebody for...? Some purpose...?	EYFS EXPRESSIVE ARTS AND DESIGN ELG: Creating with Materials: - I can safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. – I can share my creations, explaining the process I have used. PHYSICAL DEVELOPMENT ELG: Fine Motor Skills: - I can use a range of small tools, including scissors, paint brushes and cutlery. - I can begin to show accuracy and care when drawing. PERSONAL, SOCIAL AND EMOTIONAL DEVELOPMENT ELG: Managing Self: – I can understand the importance of healthy food choices.	Key Stage One DESIGN:-I can design purposeful, functional and appealing products for myself and other users based on design criteria. - I can generate, develop, model and communicate my ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology. MAKE:-I can select from and use a range of tools and equipment to perform practical tasks. -I can select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. EVALUATE:-I can explore and evaluate a range of existing products. - I can evaluate my ideas and products against design criteria. TECHNICAL KNOWLEDGE: -I can build structures, exploring how they can be made stronger, stiffer and more stable -I can explore and use mechanisms in my products. COOKING & NUTRITION:-I can use the basic principles of a healthy and varied diet to prepare dishes. - I can understand where food comes from.		Key Stage Two DESIGN: - I can 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. - I can generate, develop, model and communicate my ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. MAKE: -I can select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing], accurately. - I can 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: - I can investigate and analyse a range of existing products. - I can evaluate my ideas and products against my own design criteria and consider the views of others to improve my work. I can understand how key events and individuals in design and technology have helped shape the world. TECHNICAL KNOWLEDGE: - I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures. - I can understand and use mechanical systems in my products. - I can understand and use electrical systems in my products. - I can apply my understanding of computing to program, monitor and control my products. COOKING & NUTRITION: - I can understand and apply the principles of a healthy and varied diet. - I can prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. – I can understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.		
	Key individuals/events: Year 2/3 -Nicéphore Niepce/Thomas Wedgewood (Photo frames)/ Jamie Oliver (Sandwich snacks) Year 3/4 - Thomas Edison (Torches) /Delia Smith (Seasonal foods) Year 5-Clarence Birdseye/Gordon Ramsay (Burgers) / Henry Bessemer (Building Bridges) Year 6 –Cath Kidston/William Morris (Textiles)/ George Washington Gale Ferris, Thomas Bradshaw (Fairgrounds)/ Mary Berry (Great British Dishes)					
	EYFS / Year One	Year Two / Three	Year Three / Four	Year Five	Year Six	
Autumn Who am I ? How should we act and be ?	STRUCTURES: HOMES	FOOD AND NUTRITION (HEALTHY AND VARIED DIET): SANDWICH SNACKS	FOOD AND NUTRITION (HEALTHY AND VARIED DIET): SEASONAL FOODS	FOOD AND NUTRITION: BURGERS (CAD-TINKERCAD)	FOOD AND NUTRITION: (CELEBRATING CULTURE AND SESONALITY) GREAT BRITISH DISHES	
Spring What do we want and need to succeed?	MECHANISMS (WHEELS AND AXLES): MOVING VEHICLES (CAD -PURPLE MASH)	MECHANISMS (PNEUMATICS): MOVING MONSTERS	MECHANICAL/ELECTRICAL SYSTEMS (CIRCUITS & SWITCHES) TORCHES	MECHANICAL SYSTEMS– MOVING TOYS (CAMS)	TEXTILES: (COMBINE DIFFERENT FABRIC SHAPES & USE COMPUTER AIDED DESIGN) FASHION & TEXTILES (CAD- SILHOUETTE STUDIO)	
Summer How can we get along together?	FOOD AND NUTRITION (PREPARING FRUIT AND VEG.): EAT MORE FRUIT AND VEG.	STRUCTURES: PHOTOGRAPH FRAMES (CAD-TINKERCAD)	STRUCTURES: GREENHOUSES (CAD-TINKERCAD)	STRUCTURES: BUILDING BRIDGES	GEARS AND PULLEYS: (PULLEYS/GEARS INC. PROGRAMMING AND CONTROL) FAIRGROUNDS	