

Design and Technology Year Overview

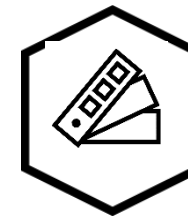
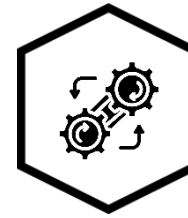
Intent: To use creativity and imagination to design and make products that solve real and relevant problems in a variety of contexts.

My key skills as a Designer:

I problem solve
I work as a team
I consider my designs
I have awareness of the consumer
I make decisions
I negotiate
I am organised
I am motivated
I evaluate my products
I ask questions
I use technical vocabulary
I communicate effectively I show leadership and perseverance

DT Essentials

User	Purpose	Functionality	Design Decisions	Innovation	Authenticity
who the products are for	what tasks the products will perform	how the products will work	the opportunities children have to make choices	the scope children have to be original with their thinking	how believable/real the products will be to the children



	Autumn	Spring	Summer
Pre-school	EAD: Exploring Media and Materials; PD: Physical Development EYFS: By the end of EYFS children should be able to explore different materials, develop their ideas about how to use them and what to make. Children should make healthy choices about food and drink.		
	Use of Construction Area, Malleable Area, Creative Area. Aspect of DT: Food preparation Development Matters- Talk about the differences between materials and changes they notice Focus: Where food comes from/ safety hygiene Product: Shortbread Star Biscuits	Use of Construction Area, Malleable Area, Creative Area. Aspect of DT: Textiles Development Matters- Join different materials and explore different textures. Focus: textile printing Product: Mother's Day calico flower and leaf pressing cards-	Use of Construction Area, Malleable Area, Creative Area. Aspect of DT: Structures Focus: Investigation of materials, join, fold, glue . Development Matters- Explore different materials freely, to develop their ideas about how to use them and what to make. Product: Junk Modelling
Reception	Aspect of DT: Mechanisms Focus: Sliders and Levers Product: Split Pin Decorations	Aspect of DT: Food Preparation Focus: Measuring and combining ingredients Product: Celebration cakes/biscuits (Easter) / Fruit Porridge / Pancakes (Shrove Tuesday)	Aspect of DT: Structures Focus: Basic shapes for structures Product: Den Building
Key Stage 1: At KS1: By the end of KS1, children should be able to design, make, evaluate and use technical knowledge. They should understand how to cook and apply the principles of nutrition and healthy eating.			
Year 1:	Aspect of DT: Mechanisms	Aspect of DT: Food Preparation	Aspect of DT: Structures



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	Focus: Sliders and Levers Product: Greeting Card	Focus: Preparing fruit and veg Product: Soup	Focus: Free Standing Structures Product: Playground Equipment
Year 2	Aspect of DT: Textiles Focus: Templates and joining techniques Product: Glove Puppet (Christmas)	Aspect of DT: Mechanisms Focus: Wheels and Axels Product: Vehicle for story character	Aspect of DT: Food Preparation Focus: Preparing fruit and veg Product: Vegetable Salad
Key Stage 2: At KS2: By the end of KS2: children should be able to design, make, evaluate and use technical knowledge. They should understand how to cook and apply the principles of nutrition and healthy eating.			
Year 3	Aspect of DT: Structures Focus: Shell Structures, including computer aided design Product: Gift Boxes	Textiles – 2D shape to 3D product (Purses / Wallets) Aspect of DT: Textiles Focus: 2D shape to 3D product Product: Purses / Wallets	Food Preparation: Healthy and varied diet (Wraps) Aspect of DT: Food Preparation Focus: Healthy and varied diet Product: Wraps
Year 4	Aspect of DT: Mechanical Systems Focus: Levers and linkages Product: Pop-up Books	Aspect of DT: Food Preparation Focus: Healthy and varied diet Product: sandwiches/toasties	Aspect of DT: Electrical Systems Focus: Simple circuits and switches, including programming and control Product: Torches
Year 5	Aspect of DT: Structures Focus: Frame Structures Product: Bird Hides	Aspect of DT: Food Preparation Focus: Celebrating culture and seasonality Product: Bread	Electrical Systems – More Complex Switches (Electrical Board Game) Aspect of DT: Electrical Systems Focus: More Complex Switches Product: Electrical Board Game
Year 6	Aspect of DT: Textiles Focus: Combining different fabric shapes, including computer-aided design Product: Phone/Tablet Case	Aspect of DT: Mechanical Systems Focus: Pulleys or gears Product: Controllable toy vehicle	Aspect of DT: Food Preparation Focus: Celebrating culture and seasonality Product: Savoury Scones