

Design and Technology 8 Year Overview

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

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

Principles of DT (substantive knowledge)					
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
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.			
Pre-school	Use of Construction Area, Malleable Area, Creative Area. Aspect of DT: Food Preparation Focus: Measuring and combining ingredients Product: Chocolate Apples (Bonfire night) Biscuits (Christmas)	Use of Construction Area, Malleable Area, Creative Area. Aspect of DT: Textiles Focus: Simple Joining Techniques – glue, tape, folds Product: TBC	Use of Construction Area, Malleable Area, Creative Area. Aspect of DT: Structures Focus: Investigation of Basic Structures Product: Cocoon (Hungry Caterpillar)



Design and Technology 8 Year Overview

Reception	Aspect of DT: Mechanisms	Aspect of DT: Food Preparation	Aspect of DT: Structures
	Focus: Sliders and Levers	Focus: Measuring and combining ingredients	Focus: Basic shapes for structures
	Product: Split Pin Decorations	Product: Celebration cakes (Easter)	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
	Focus: Sliders and Levers	Focus: Preparing fruit and veg	Focus: Free Standing Structures
	Product: Greeting Card	Product: Soup	Product: Playground Equipment
Year 2	Aspect of DT: Textiles	Aspect of DT: Mechanisms	Aspect of DT: Food Preparation
	Focus: Templates and joining techniques	Focus: Wheels and Axels	Focus: Preparing fruit and veg
	Product: Glove Puppet (Christmas)	Product: Vehicle for story character	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: Food Preparation	Aspect of DT: Textiles	Aspect of DT: Structures
	Focus: Healthy and varied diet	Focus: 2D shape to 3D product	Focus: Shell Structures, including computer aided design
	Product: Wraps	Product: Purses / Wallets	Product: Gift Boxes
Year 4	Aspect of DT: Food Preparation	Aspect of DT: Electrical Systems	Aspect of DT: Mechanical Systems
	Focus: Healthy and varied diet	Focus: Simple circuits and switches, including programming and control	Focus: Levers and linkages
	Product: Toasties		Product: Pop-up Books



Design and Technology 8 Year Overview

		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	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