Dothill Primary School D&T Coverage The national curriculum for design and technology aims to ensure that all pupils: develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users critique, evaluate and test their ideas and products and the work of others understand and apply the principles of nutrition and learn how to cook. Objectives - KS1	Year 1 Fruit Kebab	Year 1 Moving Pictures	Year 2 Explorer's Soup	Year 2 Construct an insect hotel	Year 2 Hand Puppets (textiles)
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] 		✓	√	✓	✓
 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	✓	✓	✓	✓	✓
evaluate their ideas and products against design criteria	✓	✓	√	✓	✓
TECHNICAL KNOWLEDGE					
 build structures, exploring how they can be made stronger, stiffer and more stable 		✓		✓	✓
explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.		√			
COOKING & NUTRITION					
 use the basic principles of a healthy and varied diet to prepare dishes 	✓		✓		
understand where food comes from	✓		✓		

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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 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 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 			✓			✓		✓
TECHNICAL KNOWLEDGE								
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] 	✓							✓

 understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] 		✓		✓		✓
 apply their understanding of computing to program, monitor and control their products. 				✓		✓
COOKING & 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 			✓		✓	

Influential Designers

Year 4

Conrad Hubert - invented first battery-powered torch

Year 5

Inventor of first remote-controlled lunar vehicle: Aleksandr Leonovich Kemurdzhian

Year 6

Inventor of Frederick Savage - English engineer / inventor of first steam-powered fairground ride