

## Coverage of National Curriculum Objectives

### Design and Technology

<b>Objective Pupils should be taught:</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
use the basic principles of a healthy and varied diet to prepare dishes	X	X				
understand where food comes from	X					
design purposeful, functional, appealing products for themselves and other users based on design criteria	X	X				
generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology	X	X				
select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]	X	X				
select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	X	X				
explore and evaluate a range of existing products	X					
evaluate their ideas and products against design criteria	X	X				
build structures, exploring how they can be made stronger, stiffer and more stable	X	X				
explore and use mechanisms [for example, levers, sliders, wheels and axles], in their	X	X				

products						
understand and apply the principles of a healthy and varied diet				X	X	X
prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques				X	X	X
understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.					X	
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			X	X	X	
generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design			X	X	X	
select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately			X			
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			X	X	X	X
investigate and analyse a range of existing products				X	X	
evaluate their ideas and products against their own design criteria and consider the views of			X	X	X	

others to improve their work						
understand how key events and individuals in design and technology have helped shape the world				X		
apply their understanding of how to strengthen, stiffen and reinforce more complex structures				X	X	X
understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]						X
understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]						X
apply their understanding of computing to program, monitor and control their products.					X	X