

Chapel St Leonards Primary School

National Curriculum Coverage: Design and Technology

	Year A Autumn		Year A Spring		Year A Summer		Year B Autumn		Year B Spring		Year B Summer	
Key Stage 1												
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			✓									
Select from and use a range of tools and equipment to perform practical tasks such as 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	✓		✓		✓		✓		✓			
Explore and evaluate a range of existing products	✓		✓						✓		✓	
Evaluate their ideas and products against design criteria	✓		✓						✓			
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.	✓		✓									
Use the basic principles of a healthy and varied diet to prepare dishes.							✓		✓		✓	
Understand where food comes from.			✓						✓			
Key Stage 2	Y3/4 A Autumn	Y3/4 A Spring	Y3/4 A Summer	Y3/4 B Autumn	Y3/4 B Spring	Y3/4 B Summer	Y5/6 A Autumn	Y5/6 A Spring	Y5/6 A Summer	Y5/6 B Autumn	Y5/6 B Spring	Y5/6 B Summer
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	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
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			✓									✓
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					✓							✓
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.				✓			✓		✓	✓		