

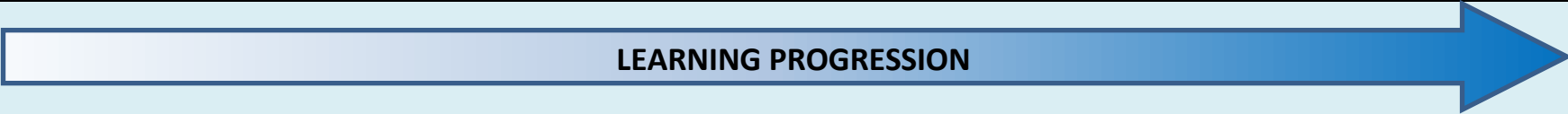



Key Stage 1									
									
Technical Knowledge	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">I know how to build structures.</td> <td style="width: 50%;">I know how to build structures, exploring how they can be made stronger, stiffer and more stable.</td> </tr> <tr> <td>I know how to use simple mechanisms [for example, levers, sliders, wheels and axles].</td> <td>I know how to explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.</td> </tr> </table>	I know how to build structures.	I know how to build structures, exploring how they can be made stronger, stiffer and more stable.	I know how to use simple mechanisms [for example, levers, sliders, wheels and axles].	I know how to explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.				
	I know how to build structures.	I know how to build structures, exploring how they can be made stronger, stiffer and more stable.							
I know how to use simple mechanisms [for example, levers, sliders, wheels and axles].	I know how to explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.								
Design	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; background-color: #cccccc;"></td> <td style="width: 50%;">I know how to design purposeful, functional, appealing products for themselves and other users based on design criteria.</td> </tr> <tr> <td>I know how to generate, develop, model and communicate their ideas through talking.</td> <td>I know how to generate, develop, model and communicate their ideas through templates.</td> </tr> <tr> <td>I know how to generate, develop, model and communicate their ideas through drawing.</td> <td>I know how to generate, develop, model and communicate their ideas through mock-ups.</td> </tr> <tr> <td style="background-color: #cccccc;"></td> <td>I know how to generate, develop, model and communicate their ideas through information and communication technology (where appropriate).</td> </tr> </table>		I know how to design purposeful, functional, appealing products for themselves and other users based on design criteria.	I know how to generate, develop, model and communicate their ideas through talking.	I know how to generate, develop, model and communicate their ideas through templates.	I know how to generate, develop, model and communicate their ideas through drawing.	I know how to generate, develop, model and communicate their ideas through mock-ups.		I know how to generate, develop, model and communicate their ideas through information and communication technology (where appropriate).
		I know how to design purposeful, functional, appealing products for themselves and other users based on design criteria.							
	I know how to generate, develop, model and communicate their ideas through talking.	I know how to generate, develop, model and communicate their ideas through templates.							
	I know how to generate, develop, model and communicate their ideas through drawing.	I know how to generate, develop, model and communicate their ideas through mock-ups.							
	I know how to generate, develop, model and communicate their ideas through information and communication technology (where appropriate).								

Key Stage 1		
<div style="border: 1px solid black; padding: 5px; text-align: center;">  </div>		
Make	I know how to use a range of tools and equipment [for example, cutting, shaping, joining and finishing].	I know how to select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing].
	I know how to use a wide range of materials and components, including construction materials, textiles and ingredients.	I know how to select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.
Evaluate		I know how to explore and evaluate a range of existing products.
	I know how to evaluate my ideas and products.	I know how to evaluate my ideas and products against design criteria.
Cooking and Nutrition	I know how to prepare dishes.	I know how to use the basic principles of a healthy and varied diet to prepare dishes.
		I understand where food comes from.

		Key Stage 2	
		 LEARNING PROGRESSION	
Technical Knowledge	I know how to strengthen, stiffen and reinforce structures.	I know how to apply my understanding of how to strengthen, stiffen and reinforce more complex structures.	
	I know how to use mechanical systems [for example, gears, pulleys, cams, levers and linkages].	I understand and know how to use mechanical systems in my products [for example, gears, pulleys, cams, levers and linkages].	
	I know how to use electrical systems [for example, series circuits incorporating switches, bulbs, buzzers and motors].	I understand and know how to use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors].	
		I know how to apply my understanding of computing to program, monitor and control my products.	
Design	I know how to use research to inform the design of functional products.	I know how to 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.	
	I know how to generate, develop, model and communicate their ideas through discussion.	I know how to generate, develop, model and communicate their ideas through annotated sketches	
		I know how to generate, develop, model and communicate their ideas through prototypes.	
		I know how to generate, develop, model and communicate their ideas through computer-aided design.	

		Key Stage 2	
			
Make	I know how to use a range of tools and equipment.	I know how to select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.	
		I know how to 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	I can investigate a range of existing products.	I can investigate and analyse a range of existing products.	
	I know how to evaluate my ideas and products against my own design criteria.	I know how to evaluate my ideas and products against my own design criteria and consider the views of others to improve my work.	
Cooking and Nutrition	I understand the principles of a healthy and varied diet.	I understand and know how to apply the principles of a healthy and varied diet.	
	I know how to use a range of cooking techniques.	I know how to prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.	
	I know where and how a variety of ingredients are grown, reared, caught and processed.	I understand seasonality, and I know where and how a variety of ingredients are grown, reared, caught and processed.	