

## Subject Coverage Map for Key Stage 1 and 2

### Design and Technology

Design Technology National Curriculum Expectations KS1			
	D&T Strands		
Pupils should be taught to:		Year 1	Year 2
Design purposeful, functional, appealing products for themselves and other users based on design criteria	<b>Design</b>	Moving Story Books Windmills Puppets Wheels and Axles	Moving Monsters Baby Bear's Chair Pouches Ferris Wheels
Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology	<b>Design</b>	Moving Story Books Windmills, Puppets Wheels and Axles	Moving Monsters Baby Bear's Chair Pouches Ferris Wheels
Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]	<b>Make</b>	Moving Story Books Windmills Puppets Wheels and Axles	Moving Monsters Baby Bear's Chair Pouches Ferris Wheels
Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	<b>Make</b>	Moving Books Windmills Puppets Wheels and Axles Smoothies	Moving Monsters Baby Bear's Chair Pouches Ferris Wheels A Balanced Diet
Explore and evaluate a range of existing products	<b>Evaluate</b>	Moving Story Books Windmills Wheels and Axles Smoothies	Moving Monsters Pouches Ferris Wheels A Balanced Diet

Evaluate their ideas and products against design criteria	<b>Evaluate</b>	Moving Story Books Windmills Puppets Wheels and Axles	Moving Monsters Baby Bear's Chair Pouches Ferris Wheels
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Design Technology National Curriculum Expectations KS1			
	D&T Strands		
Pupils should be taught to:		Year 1	Year 2
Build structures, exploring how they can be made stronger, stiffer and more stable	Technical Knowledge	Windmills	<a href="#">Baby Bear's Chair</a> <a href="#">Ferris Wheels</a>
Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.	Technical Knowledge	Moving Story Books Wheels and Axles	Moving Monsters Ferris Wheels
<b>Cooking and Nutrition:</b> Use the basic principles of a healthy and varied diet to prepare dishes	Technical Knowledge	Fruit and Vegetable Smoothie	A Balanced Diet
<b>Cooking and Nutrition:</b> Understand where food comes from	Technical Knowledge	Fruit and Vegetable Smoothie	A Balanced Diet

Design and Technology National Curriculum Expectations KS2					
	D&T Strands				
Pupils should be taught to:		Y3	Y4	Y5	Y6

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	<b>Design</b>	Eating Seasonally Pneumatic Toys Castles Static Electricity	Torches Pavilions Adapting a Recipe Slingshot car	Bridges What Could Be Healthier? Stuffed Toys Pop Up Books	Come Dine With Me Waistcoats Steady Hand Game Automata toys
Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design	<b>Design</b>	Pneumatic Toys Castles Static Electricity	Torches Pavilions Slingshot car	Bridges What Could Be Healthier? Stuffed Toys Pop Up Books	Automata Toys Waistcoats Steady Hand Game Automata toys
Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately	<b>Make</b>	Pneumatic Toys Castles Static Electricity	Pavilions Torches Slingshot car	Bridges Stuffed toys Pop Up Books	Waistcoats Steady Hand Game Automata toys
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	<b>Make</b>	Eating Seasonally Pneumatic Toys Castles Static Electricity	Pavilions Adapting a Recipe Torches Slingshot car	Bridges What Could Be Healthier? Stuffed Toys Pop Up Books	Come Dine With Me Waistcoats Steady Hand Game Automata toys
Investigate and analyse a range of existing products	<b>Evaluate</b>	Pneumatic Toys Castles Static Electricity	Pavilions Adapting a Recipe Torches	Bridges Stuffed Toys Pop Up Books	Waistcoats Steady Hand Game Automata toys

Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

**Evaluate**

Pneumatic Toys  
Castles  
Static Electricity

Pavilions  
Adapting a Recipe  
Torches  
Slingshot car

Bridges  
Stuffed Toys  
Pop Up Books

Waistcoats  
Steady Hand Game  
Automata toys

Design and Technology National Curriculum Expectations KS2

	D&T Strands	Kapow Topics			
Pupils should be taught to:		Y3	Y4	Y5	Y6
Understand how key events and individuals in design and technology have helped shape the world	<b>Evaluate</b>	Pneumatic Systems	Torches Slingshot car	What Could Be Healthier? Pop Up Books	Come Dine With Me Automata toys
Apply their understanding of how to strengthen, stiffen and reinforce more complex structures	<b>Technical Knowledge</b>	Castles	Pavilions	Bridges Pop Up Books	Automata toys

Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]	Technical Knowledge	Pneumatic Toys	Slingshot car	Pop-Up Books	Automata toys
Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]	Technical Knowledge	Static Electricity	Torches		Steady Hand Games
Apply their understanding of computing to program, monitor and control their products	Technical Knowledge	Pneumatic Toys	Torches	Micro:bit**	Computing > Bletchley Park 2***
<b>Cooking and Nutrition:</b> Understand and apply the principles of a healthy and varied diet	Technical Knowledge	Eating Seasonally	Adapting a Recipe	What Could Be Healthier?	Come Dine With Me
<b>Cooking and Nutrition:</b> Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques	Make	Eating Seasonally	Adapting a Recipe	What Could Be Healthier?	Come Dine With Me
<b>Cooking and Nutrition:</b> Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed	Technical Knowledge	Eating Seasonally	Adapting a Recipe	What Could Be Healthier?	Come Dine With Me