

# Long Term Plan for DT (Topics taught for half a term within each term)

ir	Autumn	Spring	Summer
	<ul> <li>Main Topic: Mechanisms: (Story Book)         <ul> <li>Design purposeful, functional appealing products for themselves and other users based on design criteria</li> <li>Generate, develop, model, and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology</li> <li>Explore and evaluate a range of existing products</li> <li>Explore and use mechanisms [for example, levers, sliders, wheels and axles]</li> <li>Select and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing)</li> <li>Explore and evaluate a range of existing products</li> <li>Evaluate their ideas against design criteria</li> </ul> </li> <li>Additional skills: Food (Fruit and vegetables)         <ul> <li>generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology</li> </ul> </li> <li>Make         <ul> <li>select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> <li>select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> <li>select from and use a vide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</li> </ul> </li> <li>Evaluate         <ul> <li>evaluate their ideas and products against design criteria</li> <li>desting duality and vares 1 and 2</li> <li>Working scientifically:                 <ul> <li>understand where food comes from Science</li> <li>KS1 Programme of Study – Years 1 and 2</li>                  &lt;</ul></li></ul></li></ul>	<ul> <li>Main Topic: Structures (Constructing a Windmill)         <ul> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology</li> <li>Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> <li>Select from and use a wide range of materials and components, including construction materials, according to their characteristics</li> <li>Evaluate their ideas and products against design criteria</li> <li>Build structures, exploring how they can be made stronger, stiffer and more stable</li> <li>Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> <li>Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> <li>Select from and use a range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</li> <li>Explore and evaluate a range of existing products Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products</li> <li>Explore and evaluate a range of existing products</li> <li>Explore and evaluate a range of existing products for themselves or other users based on design criteria.</li> </ul> </li> <li>Mathematics         <ul> <li>Explore and evaluate a range of existing products for themselves or other users based on design criteria.</li> <li>Design purposeful, functional, appealing products for themselves or other users based on design criteria.</li> <l< td=""><td><ul> <li>Main Topic: Mechanisms (Wheels and Axles) <ul> <li>Explore and evaluate a range of existing products</li> <li>Generate, develop, model and communic their ideas through talking, drawing, templates, mock-ups and where approprint information and communication technolog</li> <li>Explore and use mechanisms in their processing purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>Generate, develop, model and communic their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and technology</li> </ul> </li> <li>Mathematics <ul> <li>Measure and begin to record lengths and heights</li> </ul> </li> </ul></td></l<></ul></li></ul>	<ul> <li>Main Topic: Mechanisms (Wheels and Axles) <ul> <li>Explore and evaluate a range of existing products</li> <li>Generate, develop, model and communic their ideas through talking, drawing, templates, mock-ups and where approprint information and communication technolog</li> <li>Explore and use mechanisms in their processing purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>Generate, develop, model and communic their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and technology</li> </ul> </li> <li>Mathematics <ul> <li>Measure and begin to record lengths and heights</li> </ul> </li> </ul>



Autumn	Spring	Summer
<ul> <li>Technical knowledge <ul> <li>Build structures, exploring how they can be made stronger, stiffer and more stable</li> </ul> </li> <li>Make <ul> <li>Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</li> </ul> </li> <li>Design <ul> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology</li> </ul> </li> <li>Evaluate <ul> <li>Explore and evaluate a range of existing products</li> <li>Evaluate their ideas and products against design criteria</li> </ul> </li> <li>Mathematics <ul> <li>Geometry - Properties of shapes</li> <li>Identify and describe the properties of three-dimensional shapes, including the number of edges, vertices and faces</li> <li>Identify two-dimensional shapes on the surface of three-dimensional shapes [for example, a circle on a cylinder and a triangle on a pyramid]</li> <li>Compare and order lengths</li> </ul> </li> </ul>	<ul> <li>Main Topic: Textiles (Pouches)</li> <li>Select from and use a range of tools and equipment to perform practical tasks</li> <li>Design purposeful, functional, appealing products for themselves and other users</li> <li>Select from and use a wide range of materials and components, including construction materials, textiles and ingredients according to their characteristics</li> <li>Evaluate their ideas and products against a design criteria</li> <li>Additional skills: Mechanisms (Making a moving Monster)</li> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>Generate, develop, model and communicate their ideas through talking and drawing, templates, mockups and, where appropriate, information and communication technology</li> <li>Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> <li>Select from and use a range of materials and components, including construction materials, according to their characteristics</li> <li>Technical knowledge</li> <li>Build structures, exploring how they can be made stronger, stiffer and more stable</li> <li>Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.</li> </ul>	<ul> <li>Main Topic: Mechanisms (Fairground Wheel) <ul> <li>Design and Technology</li> <li>Explore and evaluate a range of existing products</li> <li>Generate, develop and communicate their ideas through talking, drawing, templates, mock-ups an where appropriate, information and communicati technology</li> <li>Explore and use mechanisms in their products Design purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>Explore and use mechanisms in their products</li> <li>Evaluate their own ideas and products against a design criteria</li> <li>Build structures exploring how they can be made stronger, stiffer, and more stable</li> <li>Explore and use mechanisms in their products</li> <li>Select from and use a range of tools and equipmet to perform practical tasks</li> <li>Mathematics</li> <li>Identify and describe the properties of 2D shapes, including the number of sides and the line of symmetry in a vertical line</li> <li>Science</li> <li>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic glass , brick , rock paper and cardboard for particular use</li> </ul></li></ul>

<ul> <li>explore and evaluate a range of existing products</li> </ul>	
• Use the basic principles of a healthy and varied diet to prepare dishes	
<ul> <li>evaluate their ideas and products against design criteria</li> </ul>	
Maths Year 2	
• Compare and order lengths, mass, volume/capacity and record the results	
using >, < and =	



ear	Autumn	Spring	Summer
3	<ul> <li>Main Topic: Electrical Systems (Static Electricity)         <ul> <li>Investigate and analyse a range of existing products</li> <li>Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</li> <li>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</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>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</li> </ul> </li> <li>Additional skills: Food (Eating Seasonality)         <ul> <li>Cooking and nutrition</li> <li>Understand and apply the principles of a healthy and varied diet</li> <li>Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> <li>Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed</li> <li>K52: Geography - Human and physical geography</li> <li>Physical geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water</li> <li>K52: Geography - Human and physical geographi</li></ul></li></ul>	<ul> <li>Main Topic: Textiles (Cushions)         <ul> <li>Select from and use a range of tools and equipment to perform practical tasks</li> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria</li> </ul> </li> <li>Additional skills: Structures         <ul> <li>(Constructing a castle)</li> <li>Design</li> <li>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</li> <li>Make</li> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>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</li> </ul> </li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>Technical knowledge</li> <li>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>Maths &gt; Year 3: Geometry - Properties of Shapes</li> <li>Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them</li> </ul>	<ul> <li>Main Topic: Mechanical systems (Pneumatic Toys)</li> <li>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</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> <li>Investigate and analyse a range of existing products</li> <li>Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> <li>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</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>Apply their understanding of computing to program, monitor and control their products 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</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>Apply their understanding of computing to program, monitor and control their products 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</li> <li>Select from and use a wider range of tools and equipment to perform practical tasks</li> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>Understand how key events and individuals in design and technology have helped shape the world</li> </ul>



Year	Autumn	Spring	Summer
4	Main Topic: Structures (Pavilions)	Main Topic: Textiles (fastenings)	Main Topic: Mechanical systems (Making a slingshot car)
	<ul> <li>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.</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes and CAD</li> <li>Select from and use a wider range of materials, components and construction materials according to their functional properties and aesthetics</li> <li>Investigate and analyse a range of existing products</li> </ul>	<ul> <li>Explore and evaluate a range of existing products</li> <li>Evaluate their ideas and products against a design criteria</li> <li>Build structures, exploring how they can be made stronger, stiffer or more stable</li> <li>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</li> </ul>	<ul> <li>Make</li> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>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</li> <li>Evaluate</li> </ul>
	<ul> <li>Select from and use a wider range of tools and equipment to perform practical tasks</li> <li>Select from and use a wider range of materials, components and construction materials according to</li> </ul>		<ul> <li>Investigate and analyse a range of existing products</li> <li>Understand how key events and individuals in design and technology have helped shape the world</li> </ul>
	<ul> <li>their functional properties and aesthetics</li> <li>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> </ul>		<ul> <li>Technical knowledge</li> <li>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>Understand and use mechanical systems in their reading to find any structure structure and structure structures.</li> </ul>
	<ul> <li><u>Maths</u></li> <li>Year 3 – Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them</li> <li>Year 4 – Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> </ul>		<ul> <li>products [for example, gears, pulleys, cams, levers and linkages]</li> <li>Design         <ul> <li>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 f</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> </ul> </li> </ul>
			<ul> <li>Evaluate         <ul> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> </ul> </li> <li>Design</li> </ul>
			<ul> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> </ul>

#### Additional skills: Food (Adapting a recipe)

#### 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

#### Cooking and 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

#### Additional skills: Electrical systems (Torches)

- Investigate and analyse a range of existing products
- Understand electrical systems in products
- Understand how key events and individuals in design and technology have helped shape the world
- 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, crosssectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
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## <u>Science</u>

- Identify common appliances that run on electricity
- Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
- Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery
- Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
- Recognise some common conductors and insulators, and associate metals with being good conductors



ear	Autumn	Spring	Summer
Design • • • Evaluate	<b>opic: Mechanical systems (making a pop up book)</b> Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer-aided 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 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 e 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 f al 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]	<ul> <li>Main Topic: Textiles (Making a stuffed toy)</li> <li>Generate, develop, model and communicate their ideas through discussions, annotated sketches, cross sectional and exploded diagrams, prototypes, pattern pieces and computer aided design</li> <li>Select from and use a wider range of tools and equipment to perform practical tasks</li> <li>Apply their understanding of how to strengthen, stiffen, and reinforce more complex structures</li> <li>Apply their understanding of how to strengthen, stuffen and reinforce more complex structures</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> </ul>	<ul> <li>Main Topic: Structures (Bridges)</li> <li>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</li> <li>Generate, develop, model and communicate their ideas through discussion and prototypes</li> <li>Select from and use a wider range of tools and equipment to perform practical tasks</li> <li>Select from and use a wider range of materials, components and construction materials according to their functional properties and aesthetics</li> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against design criteria and consider the views of others to improve their work</li> <li>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>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</li> <li>Generate, develop, model and communicate their ideas through discussion and prototypes select from and use a wider range of materials, components and construction materials according to their functional properties and aesthetics</li> <li>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>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</li> <li>Generate, develop, model and communicate their ideas through discussion and prototypes select from and use a wider range of materials, components and construction materials according to their functional properties and aesthetics</li> <li>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> </ul>

## Additional skills: Food (What could be healthier)

## Cooking and 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.

# 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], accuratel
   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 computing to program, monitor and control their products
- <u>Computing</u>
- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- <u>Maths Year 5 Programme of Study Measurement</u>
- Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)

# Additional skills: Electrical systems (Electronic greeting cards)

- 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 and prototypes
- Select from and use a wider range of tools and equipment to perform practical tasks
- Select from and use a wider range of materials, components and construction materials according to their functional properties and aesthetics
- Investigate and analyse a range of existing products
- Evaluate their ideas and products against design criteria and consider the views of others to improve their work
- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures



Year	Autumn	Spring	Summer
6	<ul> <li>Main Topic: Mechanical Structures (Automata Toys)</li> <li>Make         <ul> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>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</li> </ul> </li> <li>Evaluate         <ul> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> </ul> </li> <li>Technical knowledge         <ul> <li>Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> <li>Design             <ul> <li>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</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> </ul> </li> </ul></li></ul>	<ul> <li>Main Topic: Structure (Playgrounds)</li> <li>Use research to develop and inform the design of innovative, functional and appealing products that are fit for purpose and aimed at particular groups</li> <li>Generate, develop, model and communicate ideas through discussion and annotated sketches</li> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>Select from and use a wide range of tools and equipment to perform practical tasks</li> <li>Select from and use a wider range of materials and components including construction materials, according to their functional properties and aesthetic qualities</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>Apply understanding of how to strengthen, stiffen and reinforce complex structures</li> </ul>	<ul> <li>Main Topic: Textiles (Waistcoats)</li> <li>Generate, develop, model and communicate their ideas through discussion, annotates sketches, cross-sectional and exploded diagrams, prototypes, patterns pieces and computer aided design</li> <li>Select from and use a wider range of tools and equipment to perform practical tasks</li> <li>Understand how key events and individuals in design and technology have helped shape the world</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others.</li> </ul>

Additional skills: Food	Additional skills: Electrical Systems (Steady Hand
Come Dine with me)	Game)
Design	
<ul> <li>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</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> </ul>	<ul> <li>Understand and use electrical systems in their products</li> <li>Develop design criteria to inform the design of innovative, functional, appealing products that a fit for purpose aimed at particular individuals or groups.</li> <li>Generate, develop and communicate their ideas through discussion and annotated sketches</li> <li>Evaluate their ideas and products against design</li> </ul>
Fechnical knowledge	criteria and consider the views of others to
Apply their understanding of how to strengthen,	improve their work
stiffen and reinforce more complex structures	<ul> <li>Understand and use electrical systems in their products</li> </ul>
Cooking and nutrition	Design and technology
• Understand and apply the principles of a healthy and	<ul> <li>Model ideas through prototypes</li> </ul>
varied diet	<ul> <li>Select from and use a wide range of tools and</li> </ul>
<ul> <li>prepare and cook a variety of predominantly savoury</li> </ul>	equipment to perform practical tasks
dishes using a range of cooking techniques	<ul> <li>Evaluate their ideas and products against design</li> </ul>
<ul> <li>Understand seasonality, and know where and how a</li> </ul>	criteria and consider the views of others to
variety of ingredients are grown, reared, caught and	improve their work
processed	Understand and use electronics in their product
Make	•
<ul> <li>Select from and use a wider range of tools and</li> </ul>	
equipment to perform practical tasks [for example,	<u>Science</u>
cutting, shaping, joining and finishing], accurately	<ul> <li>Use recognised symbols when representing a</li> </ul>
<ul> <li>Select from and use a wider range of materials and</li> </ul>	simple circuit in a diagram
components, including construction materials,	<ul> <li>Compare and give reasons for variations in how</li> </ul>
textiles and ingredients, according to their functional	components function, including the brightness
properties and aesthetic qualities	bulbs, the loudness of buzzers and the on/off position of switches
Evaluate	
<ul> <li>Investigate and analyse a range of existing products</li> </ul>	
<ul> <li>Evaluate their ideas and products against their own</li> </ul>	
design criteria and consider the views of others to	
improve their work	
<ul> <li>Understand how key events and individuals in design</li> </ul>	
and technology have helped shape the world	