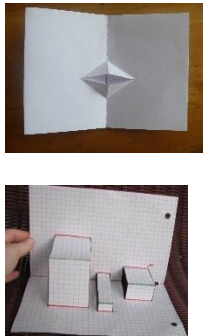







Design and Technology Long Term Plan

Year 1

<u>Product</u>		<u>Lesson 1</u>	<u>Lesson 2</u>	<u>Lesson 3</u>	<u>Lesson 4</u>
<p><u>Mechanisms</u></p> <p>Pop up card</p> 	<p><u>Resource list</u></p> <p>Card</p>	<p><u>Product research</u></p> <p>Explore and evaluate a range of existing products</p>	<p><u>Design</u></p> <p>Drawing Mock ups Templates ICT</p>	<p><u>Make</u></p> <p>Cutting Joining Shaping Finishing</p>	<p><u>Evaluate</u></p> <p>Evaluate their ideas and products against design criteria</p>
<p><u>Textiles</u></p> <p>Lolly stick puppets</p> 	<p><u>Resource list</u></p> <p>Jumbo lolly sticks</p> <p>Mixed small squares of fabric</p>	<p><u>Product research</u></p> <p>Explore and evaluate a range of existing products</p>	<p><u>Design</u></p> <p>Drawing Mock ups Templates ICT</p>	<p><u>Make</u></p> <p>Cutting Joining (glue) Shape textiles using templates Finishing - Colour and decorate textiles</p>	<p><u>Evaluate</u></p> <p>Evaluate their ideas and products against design criteria</p>
<p><u>Sandwiches</u></p> 	<p><u>Resource list</u></p> <p>Children to choose</p>	<p><u>Product research</u></p> <p>Explore and evaluate a range of existing products</p>	<p><u>Design</u></p> <p>Drawing ICT</p>	<p><u>Make</u></p> <p>Use the basic principles of a healthy and varied diet</p> <p>Understand where food comes from</p> <p>Claw grip to cut soft foods</p> <p>Peel (lettuce)</p> <p>Cutting (bread) Grate</p> <p>Rinse / Drain</p>	<p><u>Evaluate</u></p> <p>Evaluate their ideas and products against design criteria</p>



				Combine (sauces)  Spread  Assemble and arrange	
--	--	--	--	--	--


Design and Technology Long Term Plan  
Year 2

<u>Product</u>		<u>Lesson 1</u>	<u>Lesson 2</u>	<u>Lesson 3</u>	<u>Lesson 4</u>
<u>Mechanisms</u>  Moving vehicles  	<u>Resource list</u>  Card Boxes Wheels Axels	<u>Product research</u>  Explore and evaluate a range of existing products	<u>Design</u>  Drawing Mock ups Templates ICT	<u>Make</u>  Cutting Joining Shaping Finishing	<u>Evaluate</u>  Evaluate their ideas and products against design criteria
<u>Structure</u>  Money boxes  	<u>Resource list</u>  Card cube nets Lolly sticks	<u>Product research</u>  Explore and evaluate a range of existing products	<u>Design</u>  Drawing Mock ups Templates ICT	<u>Make</u>  Cutting Joining Shaping Finishing  Measure and mark out to the nearest cm.  Combine materials to strengthen.	<u>Evaluate</u>  Evaluate their ideas and products against design criteria
<u>Healthy pizza</u>  Tortilla pizzas  	<u>Resource list</u>  Children to choose	<u>Product research</u>  Explore and evaluate a range of existing products	<u>Design</u>  Drawing ICT	<u>Make</u>  Use the basic principles of a healthy and varied diet  Understand where food comes from  Claw grip to cut soft foods  Peel	<u>Evaluate</u>  Evaluate their ideas and products against design criteria



				Grate Mix, stir, combine Spread Assemble and arrange Observe adults using the oven	
--	--	--	--	--	--


<u>Design and Technology Long Term Plan</u>					
<u>Year 3</u>					
<u>Product</u>		<u>Lesson 1</u>	<u>Lesson 2</u>	<u>Lesson 3</u>	<u>Lesson 4</u>

<u>Mechanisms</u>	<u>Resource list</u>	<u>Product research</u>	<u>Design</u>	<u>Make</u>	<u>Evaluate</u>
Pneumatics 	Balloon Boxes / burger boxes Balloon pump Pens	Investigate and analyse  Understand how key events in Design Technology have helped shape the world	Use research and develop criteria to inform the design of appealing products aimed at particular groups.  Model, discuss, annotated sketches, cross sectional and exploded diagrams, prototypes, pattern pieces and computer aided design.	Cutting, shaping, joining and finishing.  Select from a wider range of materials according to their functional properties and aesthetics.  Use scientific knowledge of forces to choose appropriate mechanisms for product.	Evaluate their ideas and products against design criteria  Consider the views of others to improve their work
Textiles  Simple book mark 	<u>Resource list</u>  Needles Thread Binca fabric	<u>Product research</u>  Investigate and analyse  Understand how key events in Design Technology have helped shape the world	<u>Design</u>  Use research and develop criteria to inform the design of appealing products aimed at particular groups.  Model, discuss, annotated sketches, cross sectional and exploded diagrams, prototypes, pattern pieces and computer aided design.	<u>Make</u>  Cutting, shaping, joining and finishing.  Select from a wider range of materials according to their functional properties and aesthetics.  Join textiles with appropriate stitching.  Measure and mark out to the nearest mm.	<u>Evaluate</u>  Evaluate their ideas and products against design criteria  Consider the views of others to improve their work

<p><u>Spanish omelettes</u></p> 	<p><u>Resource list</u></p> <p>Children to choose</p>	<p><u>Product research</u></p> <p>Understand the principles of a healthy and varied diet</p> <p>Understand seasonality and know where and how a variety of ingredients are grow, reared, caught and processed.</p>	<p><u>Design</u></p> <p>annotated sketches, cross sectional and exploded diagram</p>	<p><u>Make</u></p> <p>Prepare and cook a range of predominately savoury dishes using a range of cookery techniques</p> <p>Claw grip to cut soft foods</p> <p>Bridge hold to cut hard foods</p> <p>Crush (garlic)</p> <p>Grate</p> <p>Mix/stir/combine</p> <p>Crack an egg</p> <p>Assemble and arrange</p> <p>Use the hob with adult supervision</p> <p>Handle hot food safely – oven gloves and use of spatula</p>	<p><u>Evaluate</u></p> <p>Evaluate their ideas and products against design criteria</p> <p>Consider the views of others to improve their work</p>
---	---	--	--	--	---

<p><u>Design and Technology Long Term Plan</u> <u>Year 4</u></p>					
<p><u>Product</u></p>		<p><u>Lesson 1</u></p>	<p><u>Lesson 2</u></p>	<p><u>Lesson 3</u></p>	<p><u>Lesson 4</u></p>

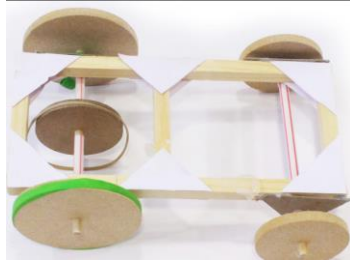
<p><u>Electrical control</u></p> <p>Burglar alarm</p>  <p><a href="http://www.capstonekids.com/make-stuff/projects/burglar-alarm.html">http://www.capstonekids.com/make-stuff/projects/burglar-alarm.html</a></p>	<p><u>Resource list</u></p> <ul style="list-style-type: none"> <li>• Aluminium foil</li> <li>• Electric buzzer</li> <li>• Battery</li> <li>• Towel strips</li> <li>• Copper wire</li> <li>• Cardboard</li> </ul>	<p><u>Product research</u></p> <p>Investigate and analyse</p> <p>Understand how key events in Design Technology have helped shape the world</p>	<p><u>Design</u></p> <p>Use research and develop criteria to inform the design of appealing products aimed at particular groups.</p> <p>Model, discuss, annotated sketches, cross sectional and exploded diagrams, prototypes, pattern pieces and computer aided design.</p>	<p><u>Make</u></p> <p>Cutting, shaping, joining and finishing.</p> <p>Select from a wider range of materials according to their functional properties and aesthetics.</p> <p>Create circuits using electronic components.</p>	<p><u>Evaluate</u></p> <p>Evaluate their ideas and products against design criteria</p> <p>Consider the views of others to improve their work</p>
<p><u>Structure</u></p> <p>Make your own musical instrument</p> 	<p><u>Resource list</u></p> <p>Boxes Elastic Pens to decorate</p>	<p><u>Product research</u></p> <p>Investigate and analyse</p> <p>Understand how key events in Design Technology have helped shape the world</p>	<p><u>Design</u></p> <p>Use research and develop criteria to inform the design of appealing products aimed at particular groups.</p> <p>Model, discuss, annotated sketches, cross sectional and exploded diagrams, prototypes</p>	<p><u>Make</u></p> <p>Cutting, shaping, joining and finishing.</p> <p>Select from a wider range of materials according to their functional properties and aesthetics.</p> <p>Strengthen materials using appropriate techniques.</p>	<p><u>Evaluate</u></p> <p>Evaluate their ideas and products against design criteria</p> <p>Consider the views of others to improve their work</p>


			, pattern pieces and computer aided design.		
<u>Pasta and healthy sauce</u> 	<u>Resource list</u>  Children to choose	<u>Product research</u>  Understand the principles of a healthy and varied diet  Understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed.	<u>Design</u>  annotated sketches, cross sectional and exploded diagram	<u>Make</u>  Prepare and cook a range of predominantly savoury dishes using a range of cookery techniques  Claw grip to cut soft foods  Bridge hold to cut hard foods  Crush (garlic)  Grate  Peel harder foods  Mix/stir/combine  Crack an egg  Sieve  Use of rolling pin  Assemble and arrange	<u>Evaluate</u>  Evaluate their ideas and products against design criteria  Consider the views of others to improve their work




				<p>Use the hob with adult supervision</p> <p>Handle hot food safely – oven gloves and use of spatula</p>	
--	--	--	--	--	--

Design and Technology Long Term Plan  
Year 5

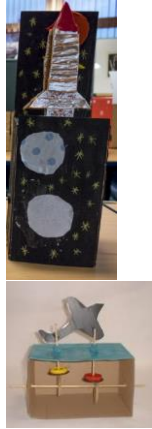
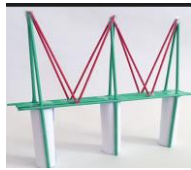
<u>Product</u>		<u>Lesson 1</u>	<u>Lesson 2</u>	<u>Lesson 3</u>	<u>Lesson 4</u>
<p><u>Electrical control</u></p> <p>Moon buggies</p>  <p><a href="https://www.tts-group.co.uk/blog/2016/11/02/pulley-motorised-vehicle.html">https://www.tts-group.co.uk/blog/2016/11/02/pulley-motorised-vehicle.html</a></p>	<p><u>Resource list</u></p> <p>Battery holder</p> <p>Battery snap</p> <p>Toggle switch</p> <p>Motor</p> <p>Motor mount</p> <p>3 crocodile leads</p> <p>Rubber band ~ 1.5mm x 1.5mm x 8cm</p> <p>Small plastic pulley</p> <p>Wooden pulley</p> <p>wooden wheels</p> <p>Straws</p> <p>8 cable ties</p> <p>card triangle axle supports</p> <p>Balloon</p> <p>Wooden</p>	<p><u>Product research</u></p> <p>Investigate and analyse</p> <p>Understand how key events in Design Technology have helped shape the world</p>	<p><u>Design</u></p> <p>Use research and develop criteria to inform the design of appealing products aimed at particular groups.</p> <p>Model, discuss, annotated sketches, cross sectional and exploded diagrams, prototypes, pattern pieces and computer aided design.</p>	<p><u>Make</u></p> <p>Cutting, shaping, joining and finishing.</p> <p>Select from a wider range of materials according to their functional properties and aesthetics.</p> <p>Create circuits and employ a number of components.</p> <p>Use of computing: Write a code to control or monitor products.</p>	<p><u>Evaluate</u></p> <p>Evaluate their ideas and products against design criteria</p> <p>Consider the views of others to improve their work</p>


	dowel 5mm diameter				
	Square section wood				
<u>Textiles</u>	<u>Resource list</u>	<u>Product research</u>	<u>Design</u>	<u>Make</u>	<u>Evaluate</u>
Drawstring bag 	Calico material String for drawstring Sewing materials Tape measures	Investigate and analyse  Understand how key events in Design Technology have helped shape the world	Use research and develop criteria to inform the design of appealing products aimed at particular groups.  Model, discuss, annotated sketches, cross sectional and exploded diagrams, prototypes , pattern pieces and computer aided design	Cutting, shaping, joining and finishing.  Understand the need to allow a seam allowance.  Join textiles with a range of sewing techniques (back stitch for seams, running stitch for decoration).  Select appropriate materials to decorate textiles.  Measure and mark out with accuracy.	Evaluate their ideas and products against design criteria  Consider the views of others to improve their work

<u>Bread – Focaccia</u>	<u>Resource list</u>	<u>Product research</u>	<u>Design</u>	<u>Make</u>	<u>Evaluate</u>
<p data-bbox="185 259 384 360">Types of bread Healthy choices Seasonality</p> 	<p data-bbox="576 293 691 360">Children to choose</p>	<p data-bbox="730 293 866 495">Understand the principles of a healthy and varied diet</p> <p data-bbox="730 528 866 898">Understand seasonality and know where and how a variety of ingredients are grow, reared, caught and processed.</p>	<p data-bbox="885 259 1016 495">annotated sketches, cross sectional and exploded diagram</p>	<p data-bbox="1040 259 1256 495">Prepare and cook a range of predominately savoury dishes using a range of cookery techniques</p> <p data-bbox="1040 528 1256 595">Claw grip to cut soft foods</p> <p data-bbox="1040 629 1256 696">Bridge hold to cut hard foods</p> <p data-bbox="1040 730 1256 797">Dice foods – herbs/butter</p> <p data-bbox="1040 831 1256 931">Finely grate (parmesan cheese)</p> <p data-bbox="1040 965 1256 1032">Mix/stir/combine</p> <p data-bbox="1040 1066 1256 1099">Sieve</p> <p data-bbox="1040 1133 1256 1167">Knead and shape</p> <p data-bbox="1040 1200 1256 1301">Use of rolling pin to a certain thickness</p> <p data-bbox="1040 1335 1256 1402">Assemble and arrange</p> <p data-bbox="1040 1435 1256 1536">Use the oven with adult supervision</p> <p data-bbox="1040 1570 1256 1704">Handle hot food safely – oven gloves and use of spatula</p>	<p data-bbox="1195 259 1402 528">Evaluate their ideas and products against design criteria</p> <p data-bbox="1195 562 1402 797">Consider the views of others to improve their work</p>

Design and Technology Long Term Plan

Year 6

<u>Product</u>		<u>Lesson 1</u>	<u>Lesson 2</u>	<u>Lesson 3</u>	<u>Lesson 4</u>
<p><u>Mechanisms</u></p> <p>Cams Toy</p> 	<p><u>Resource list</u></p> <p>Card</p> <p>Dowels</p> <p>Cams</p>	<p><u>Product research</u></p> <p>Investigate and analyse</p> <p>Understand how key events in Design Technology have helped shape the world</p>	<p><u>Design</u></p> <p>Use research and develop criteria to inform the design of appealing products aimed at particular groups</p> <p>Model, discuss, annotated sketches, cross sectional and exploded diagrams, prototypes, pattern pieces and computer aided design</p>	<p><u>Make</u></p> <p>Cutting, shaping, joining and finishing</p> <p>Select from a wider range of materials according to their functional properties and aesthetics</p>	<p><u>Evaluate</u></p> <p>Evaluate their ideas and products against design criteria</p> <p>Consider the views of others to improve their work</p>
<p><u>Structures</u></p> <p>Bridges</p> 	<p><u>Resource list</u></p> <p>Straws</p> <p>Triangles</p> <p>Masking tape</p>	<p><u>Product research</u></p> <p>Investigate and analyse</p> <p>Understand how key events in Design Technology have helped shape the world</p>	<p><u>Design</u></p> <p>Use research and develop criteria to inform the design of appealing products aimed at particular groups</p> <p>Model, discuss, annotated sketches, cross sectional and exploded diagrams, prototypes, pattern pieces and computer aided design</p>	<p><u>Make</u></p> <p>Cutting, shaping, joining and finishing</p> <p>Select from a wider range of materials according to their functional properties and aesthetics</p> <p>Show an understanding of the qualities of materials to choose appropriate tools to cut and shape (e.g. the nature of the fabric may require sharper scissors).</p>	<p><u>Evaluate</u></p> <p>Evaluate their ideas and products against design criteria</p> <p>Consider the views of others to improve their work</p>

<u>Healthy cereal bar</u>	<u>Resource list</u>	<u>Product research</u>	<u>Design</u>	<u>Make</u>	<u>Evaluate</u>
	<p>Children to choose</p>	<p>Investigate and analyse</p> <p>Understand how key events in Design Technology have helped shape the world</p>	<p>Use research and develop criteria to inform the design of appealing products aimed at particular groups</p> <p>Model, discuss, annotated sketches, cross sectional and exploded diagrams, prototypes, pattern pieces and computer aided design</p>	<p>Cutting, shaping, joining and finishing</p> <p>Select from a wider range of materials according to their functional properties and aesthetics</p> <p>Make packaging</p> <p>Claw grip to cut soft foods</p> <p>Bridge hold to cut hard foods</p> <p>Grate -chocolate</p> <p>Mix/stir/combine</p> <p>Sieve</p> <p>Use biscuit cutters</p> <p>Spread food evenly</p> <p>Shape mixtures</p> <p>Assemble and arrange</p> <p>Use the hob with adult supervision</p> <p>Handle hot food safely – oven gloves and use of spatula</p>	<p>Evaluate their ideas and products against design criteria</p> <p>Consider the views of others to improve their work</p>

