# Línton Primary School New Whole School Curriculum DESIGN and TECHNOLOGY

## KS1

### **Key Learning in Design and Technology**

Designing	Making	Evaluating
<ul> <li>Research different examples of what is to be made or produced.</li> <li>Explore existing products and investigate their construction.</li> <li>Decide how existing products do/ do not achieve their intended purpose.</li> <li>Use drawings to record ideas.</li> <li>Propose more than one idea for the product to be made.</li> <li>Annotate drawings and describe ideas and intentions giving reasons for the choices made.</li> <li>Use kits / reclaimed materials to develop and model ideas.</li> <li>Consider appropriate construction techniques.</li> </ul>	<ul> <li>Explore processes required to fulfil the job criteria.</li> <li>Explore materials and techniques for construction associated with their use that address specific characteristics.</li> <li>Discuss work as it progresses and identify where adjustments need to be made.</li> <li>Select appropriate materials.</li> <li>Select appropriate tools for working with specific materials.</li> <li>Measure and weigh accurately as required.</li> <li>Describe the stages of the making process.</li> </ul>	<ul> <li>Discuss design ideas during the making process and identify where adjustments are necessary.</li> <li>Identify potential problems during the making process.</li> <li>Note any changes made by annotating designs.</li> <li>Talk about the finished design identifying strengths and weaknesses of the finished product.</li> <li>Give reasons for the success of the prouct.</li> <li>Discuss how closely te finished product resembles the original design and how well it meets the design criteria and the needs of the user.</li> </ul>

	Autumn Term	Spring Term	Summer Term
1	Mind Over Matter  Looking at overcoming adversity, developing a 'Growth Mindset'.  What provides individuals with the motivation and determination to succeed?	Fight for Survival Investigating settlements, communities and food chains. What are the characteristics of success and failure?	Incredible Journeys Taking a look at habitats, migration and nomadic lifestyles. What drives them on?
KS1	<ul> <li>Investigate different foods, e.g. those considered to be healthy / unhealthy.</li> <li>Develop a food vocabulary using sight, taste, smell, and description of texture.</li> <li>Group familiar food products.</li> <li>Understand the need for a variety of foods in our diet.</li> <li>Discover information relating to the benefits of a particular food.</li> <li>Design a healthy food product, e.g. fruit snack, cupcake, bar, pizza etc.</li> <li>Work safely and hygienically.</li> <li>Measure and weigh foods accurately.</li> <li>Create then taste the product.</li> <li>Evaluate the success of the product, giving reasons for the conclusions reached.</li> </ul>	<ul> <li>Investigate clay as a material for construction.</li> <li>Identify the properties of clay and associated methods required to work successfully with it.</li> <li>Investigate sculpting and joining methods.</li> <li>Design a replica of an artefact, e.g. a fossil, coil pot or dinosaur etc.</li> <li>Create a model considering accuracy of shape, size and decoration.</li> <li>Evaluate making process and identify specific requirements of working with clay.</li> <li>Evaluate success of own model.</li> </ul>	<ul> <li>Research different examples of a particular structure, e.g. living wagon, canal equipment, temporary shelter etc.</li> <li>Explore the specific characteristics of the structure, e.g. axle fittings, frame or chassis, wheels, canvas body etc.</li> <li>Explore how such a structure is made strong enough to do the job, e.g. investigate shape, combination of structures and materials etc.</li> <li>Select materials that will meet the design criteria.</li> <li>Investigate how different materials can be altered to make them stronger and fit for purpose.</li> <li>Investigate appropriate methods of joining.</li> <li>Use a template to mark out materials prior to cutting.</li> <li>Test structures for strength and stability.</li> <li>Consider how decoration could enhance the finished product.</li> <li>Evaluate own work.</li> </ul>

2	UNRNOWN UNIVERSE  Space exploration, breakthroughs and new discoveries. How are we changing the world?	Heroes and Villains  Taking a closer look at making and breaking the rules. Who's got talent and influence?	The Greatest Gift  Discussing and debating the impact of talent.  What impact will you have on the world?
KS1	<ul> <li>Investigate the properties and characteristics of a range of malleable materials, e.g. plasticine, salt dough, modelling clay etc.</li> <li>Consider what a specific object needs to meet the requirements of its environment, e.g. an alien, creature or spacecraft.</li> <li>Design an object, e.g. a poseable figure or model to be used to tell a story.</li> <li>Adapt and refine the model.</li> <li>Use technology to record a story.</li> </ul>	<ul> <li>Investigate a number of images and representations of heroes and villains. Consider the characteristics that define them.</li> <li>Consider how to represent them, e.g. as a toy, puppet, role play garment etc.</li> <li>Explore the properties of different fabrics, formed from natural and man-made materials.</li> <li>Choose fabrics that best fit the purpose of the task.</li> <li>Make / use a template.</li> <li>Cut out shapes which have been created by drawing round a template/ marking out onto fabric.</li> <li>Join fabrics by using an appropriate method, e.g. stitching, gluing, stapling, taping etc.</li> <li>Decorate the product by colouring / attaching items, e.g. buttons, beads, sequins, ribbons or braids etc.</li> <li>Collaboratively evaluate.</li> </ul>	<ul> <li>Investigate products/ inventions that have made a task easier.</li> <li>Consider how and why it works so well.</li> <li>Consider its construction and the characteristics that contribute to its success.</li> <li>Experiment with levers and sliders to find different ways of making things move in 2D &amp;/ or 3D.</li> <li>Use construction kits such as mechano, knex etc to create working models to demonstrate effectiveness and ease of use.</li> <li>Design packaging and adverts to market product.</li> <li>Evaluate own and each others' ideas, designs, build quality and marketing of final product.</li> </ul>
3	Seasons of Change  Charting changes in the environment and over time. Exploring how to cope with change.  How can we use change to our advantage?	Home Grown Influential individuals from our region who have changed our lives locally, nationally and globally. What are the effects of innovation?	Hidden World  Using charts, maps and information to establish areas that remain enigmatic. What lies in wait - is still to come?
K.S1	<ul> <li>Investigate different foods, e.g. those available at different times of the year.</li> <li>Investigate where our food comes from.</li> <li>Develop a food vocabulary using sight, taste, smell, and description of texture.</li> <li>Group familiar food products.</li> <li>Understand the need for a variety of foods in our diet.</li> <li>Discover information relating to the benefits of a particular food.</li> <li>Design a healthy food product using locally available produce, e.g. soup, dessert, sausage etc.</li> <li>Work safely and hygienically.</li> <li>Measure and weigh foods accurately.</li> <li>Create then taste the product.</li> <li>Evaluate the success of the product, giving reasons for the conclusions reached.</li> </ul>	<ul> <li>Research different examples of a particular structure, e.g. a vehicle, shelter etc.</li> <li>Explore the specific characteristics of the structure, e.g. sides / walls, axle fittings, frame or chassis, wheels, body etc.</li> <li>Explore how such a structure is made strong enough to do the job, e.g. investigate shape, combination of structures and materials etc.</li> <li>Select materials that will meet the design criteria, e.g. wood, plastic etc.</li> <li>Investigate how different materials can be altered to make them stronger and fit for purpose.</li> <li>Investigate appropriate methods of construction and joining.</li> <li>Use tools such as hacksaws, hammers etc. safely.</li> <li>Use a template to mark out materials prior to cutting.</li> <li>Test structures for strength and stability.</li> <li>Consider how decoration could enhance the finished product.</li> <li>Evaluate own work.</li> </ul>	<ul> <li>Investigate different materials discovered that have been used as alternatives for construction.</li> <li>Identify the properties and associated methods required to work successfully with such materials.</li> <li>Investigate production of new materials, necessary preparation and joining methods.</li> <li>Design a new, innovative product to address a specific need, e.g. a shelter for humans/ animals, a vessel, container or other means of carrying or transporting etc.</li> <li>Work collaboratively.</li> <li>Create a model considering accuracy of shape, size and decoration.</li> <li>Evaluate making process and identify specific requirements of working with materials used.</li> <li>Evaluate success of own product.</li> </ul>

4	Secrets of the Deep  Examining innovation underground and underwater.  What will the impact of new discoveries be?	The Weird and the Wonderful Looking at civilisations and discoveries that have surprised, astounded and amazed. What is the value of having an open mind?	AWESOME EXPLOYERS  Considering who we remember and why. Delving into methods of recording.  What are the common characteristics of adventure?
KS1	<ul> <li>Investigate the properties and characteristics of a range of malleable materials, e.g. plasticine, salt dough, modelling clay etc.</li> <li>Consider what a specific object needs to meet the requirements of its environment, e.g. an alien, creature or craft.</li> <li>Design an object, e.g. a poseable figure or model to be used to tell a story.</li> <li>Adapt and refine the model.</li> <li>Use technology to record a story.</li> </ul>	<ul> <li>Investigate a number of images of plants, animals, artefacts etc discovered from different civilisations.</li> <li>Consider how to use the concept and adapt to design a functional item either to be worn or carried e.g. garment, jewellery or accessory.</li> <li>Explore the properties of different fabrics, formed from natural and man-made materials.</li> <li>Choose fabrics that best fit the purpose of the task.</li> <li>Make / use a template.</li> <li>Cut out shapes which have been created by drawing round a template/ marking out onto fabric.</li> <li>Join fabrics/ materials by using an appropriate method, e.g. stitching, gluing, stapling, taping, threading etc.</li> <li>Decorate the product by colouring / attaching items, e.g. tie-dying, buttons, beads, sequins, ribbons or braids etc.</li> <li>Collaboratively evaluate.</li> </ul>	<ul> <li>Investigate ingenuity and invention in difficult circumstances.</li> <li>Consider how and why a particular product or design works so well.</li> <li>Consider its construction and the characteristics that contribute to its success.</li> <li>Experiment with levers and sliders to find different ways of making things move in 2D &amp;/ or 3D.</li> <li>Design a product using a limited range of given objects and materials.</li> <li>Create a working model.</li> <li>Refine ideas and model to improve performance.</li> <li>Demonstrate effectiveness and ease of use.</li> <li>Produce final drawings of product complete with annotations and measurements.</li> <li>Evaluate own and each others' ideas, designs, build quality and marketing of final product.</li> </ul>



# **Key Learning in Design and Technology**

#### Lower KS2

### upper KS2

Designing	Making	Evaluating
<ul> <li>Research different examples of what is to be made or produced to inspire starting points for a design.</li> <li>Find out about the work of designers and inventors past and present.</li> <li>Draw / sketch products to help analyse and understand how / why they might have been made.</li> <li>Research the needs of the user.</li> <li>Develop a series of design ideas / adaptations from an initial idea.</li> <li>Consider strongest design idea to take forward to production.</li> <li>Plan a sequence of actions that will be required to make a product.</li> <li>Record by drawing and annotating.</li> <li>Begin to use diagram, cross section and exploded sectional representations to explain ideas.</li> <li>Make and use prototypes.</li> <li>Plan the tools and materials that will be required.</li> <li>Consider aesthetic qualities and performance of materials prior to making choices.</li> <li>Use CAD where appropriate.</li> <li>Research different products.</li> <li>Consider user and purpose.</li> <li>List tools needed before starting.</li> <li>Plan the sequence of work.</li> <li>Record ideas using annotated diagrams.</li> <li>Use models, kits and drawings to formulate design ideas.</li> <li>Combine modelling and drawing to refine ideas.</li> <li>Devise step by step plans that can be followed by someone else.</li> <li>Use exploded diagrams and cross sectional diagrams to communicate ideas.</li> <li>Sketch and model alternative ideas.</li> <li>Make an informed decision which design idea to develop.</li> </ul>	<ul> <li>Explore processes required to achieve success with chosen materials.</li> <li>Investigate appropriate tools and equipment required.</li> <li>Select from a range of tools for cutting, shaping, joining and finishing.</li> <li>Prepare pattern pieces and templates.</li> <li>Cut out, including any slot / notches or internal shapes that need to be removed / added.</li> <li>Select appropriate techniques for different stages of the making process.</li> <li>Plan the stages of the making process.</li> <li>Evaluate and adapt during the making process as necessary.</li> <li>Use appropriate finishing techniques.</li> <li>Make prototypes.</li> <li>Develop one idea in-depth.</li> <li>Use researched information to inform decisions.</li> <li>Produce detailed lists of ingredients / components/ materials / tools and equipment.</li> <li>Use a computer to model ideas.</li> <li>Select from and use a wide range of tools (including specialist).</li> <li>Cut accurately and safely to a marked line.</li> <li>Select from and use a wide range of materials.</li> <li>Broaden knowledge of a wide range of materials.</li> <li>Use finishing techniques appropriate to the project.</li> <li>Refine the product – review and re-work to improve.</li> </ul>	<ul> <li>Identify the strengths and weaknesses of design ideas in relation to the purpose and identified needs of the user.</li> <li>Consider success of form, function and aesthetic appeal.</li> <li>Consider and describe how the making process could be refined or improved.</li> <li>Consider and describe how the finished product could be refined and / or improved.</li> <li>Discuss how well the finished product meets the criteria as set out in the design brief.</li> <li>Consider final costings for a prototype and for a product going into production.</li> <li>Evaluate effectiveness of existing products.</li> <li>Identify strengths and weaknesses of design ideas.</li> <li>Report using the correct technical vocabulary.</li> <li>Consider and explain how the finished product could be improved in relation to the criteria as set out in the design brief.</li> <li>Discuss how well the finished product meets the design criteria and test to demonstrate.</li> <li>Understand how key individuals have influenced design.</li> </ul>

Autumn Te	rm Sprín	ng Term	Summer Term
Mínd Over M	atter <u>Fiaht fo</u>	ng Term or Survival	Incredible Journeys
Looking at overcoming adversity, developing a What provides individuals with the motivation succeed?	'Growth Mindset'. Investigating settlements, com	munities and food chains. What are	Taking a look at habitats, migration and nomadic lifestyles. What drives them on?
Develop sensory vocabulary / knowledge usin and texture.  Analyse the taste, texture, smell and appeara foods (predominantly savoury).  Demonstrate competence in following instruct Broaden understanding of healthy food choice. Make informed choices of ingredients to designate Join and combine a range of ingredients.  Explore seasonality of fruit and vegetables as produce locally.  Discover origins of ingredients.  Develop an awareness of sustainability in regament, fruit, vegetables, arable and other products taking into account the ingredients and sensory characteristics.  Weigh and measure using scales.  Select and prepare foods for a particular purp Work safely and hygienically.  Show an awareness and understanding of a huse a range of cooking techniques.  Know where and how ingredients are grown a Consider the influence of contemporary chefs champion.	to survival.  Develop vocabulary relating to available to perform a specific storage receptacle.)  Investigate and understand the materials, e.g. bone, clay, hide Investigate methods of joining product.  Produce a prototype.  Use the prototype to create a Explore means of strengthening own design ideas.  Use appropriate decoration to Evaluate functional success of Use the correct vocabulary ap associated with the project.  Create 3D products using patt  Consider where seam allowan joining occur.  Understand a pattern layout a Construct temporarily to ensupieces together before joining where fabrics are used, gain estitching including using a sew	pattern. ng, hardening, stiffening materials. and recreate those appropriate to echniques. product. propriate to technical terms ern, pieces and templates. ces and allowances necessary for and quantities to maximise efficiency. re accuracy, e.g. pin, tack or tape permanently. experience of different methods of ing machine under close supervision. to materials to fulfil the design	<ul> <li>Develop vocabulary specific to the product to be designed.</li> <li>Use mechanical systems such as gears, pulleys, levers and linkages</li> <li>Incorporate a circuit into a model.</li> <li>Use electrical systems such as switches, bulbs and buzzers.</li> <li>Use ICT to control product.</li> <li>Use rigid materials and structures to create levers and linkages.</li> <li>Use linkages to make movement larger or more varied.</li> <li>Develop a technical vocabulary specific and appropriate to the project and product being designed.</li> <li>Use mechanical systems such as cams pulleys and gears.</li> <li>Broaden knowledge and understanding of how and where these systems can be employed successfully.</li> <li>Use electrical systems.</li> <li>Include electrical components such as motors in designs.</li> <li>Program, monitor and control a system using ICT.</li> <li>Use specialist tools required to construct the materials being used</li> <li>Mark out and measure accurately.</li> <li>Build frameworks to support mechanisms.</li> </ul>

	Autumn Term	Spring Term	Summer Term
	<u>Unknown Universe</u>	Spring Term <u>Heroes and Villains</u>	The Greatest Gift
2	Space exploration, breakthroughs and new discoveries. How are we changing the world?	Taking a closer look at making and breaking the rules. Who's got talent and influence?	Discussing and debating the impact of talent.  What impact will you have on the world?
Lower KS2 Upper KS2	Consider technology and inventions in the recent past and those currently being developed.  Develop vocabulary related to innovation and invention.  Consider what future human needs might be.  Develop a series of further developed ideas from one initial design idea.  Consider innovative materials that could be put to an alternative use.  Create 'shell' or frame, prototype structures.  Consider how to make structures more stable / durable.  Measure and mark components accurately.  Present design idea and prototype model, stating the benefits it might have for the user.  Evaluate each others' work.  Develop a technical vocabulary specific and appropriate to the project and product being designed.  Use the correct terminology for tools and materials being used.  Use specialist equipment to mark out, e.g. using a bradawl to mark hole positions.  Join materials using appropriate methods, e.g. nails / screws / glue for wood.  Build framework and refine and adapt to improve strength.  Explore how to reinforce complex structures.	<ul> <li>Use knowledge of the user's needs to design a specific product or garment for a Hero or Villain associated with our local region, e.g. a teapot for Earl Grey, a bag carrying system for an artist / draughtsman such as George Stephenson, L S Lowry or Thomas Bewick.</li> <li>Investigate and broaden knowledge of appropriate materials.</li> <li>Consider appropriate tools and methods of construction.</li> <li>Explore methods of joining associated with particular materials. Ensure the success of function is considered.</li> <li>Make a prototype.</li> <li>Use the prototype to make a template or pattern.</li> <li>Explore fastenings that are best fit to design and function.</li> <li>Decorate to reflect identity of user.</li> <li>Use the correct vocabulary appropriate to technical terms associated with the project.</li> <li>Create 3D products using pattern, pieces and templates.</li> <li>Consider where seam allowances and allowances necessary for joining occur.</li> <li>Understand a pattern layout or quantities to maximise efficiency.</li> <li>Construct temporarily to ensure accuracy, e.g. pin, tack or tape pieces together before joining permanently.</li> <li>Where fabrics are used, gain experience of different methods of stitching including using a sewing machine under close supervision.</li> <li>Explore different adaptations to materials to fulfil the design criteria.</li> <li>Combine materials for strength and aesthetic effect.</li> <li>Decorate appropriately.</li> <li>Make a quality product.</li> </ul>	Design a mechanical system to perform a specific function, e.g. an irrigation system or wind powered system.  Investigate systems that involve gears, pulleys, levers or linkages. Incorporate a circuit into a model. Use an electrical system controlled by a switch that incorporates components such a s buzzers or bulbs. Use ICT where applicable to control system / working model of system. Choose and test materials to ascertain suitability for the task. Use a variety of materials to create levers and linkages. Use linkages to adapt and improve the system being created. Evaluate efficiency of the system. Develop a technical vocabulary specific and appropriate to the project and product being designed. Use mechanical systems such as cams pulleys and gears. Broaden knowledge and understanding of how and where these systems can be employed successfully. Use electrical systems. Include electrical components such as motors in designs. Program, monitor and control a system using ICT. Use specialist tools required to construct the materials being used. Mark out and measure accurately. Build frameworks to support mechanisms.

	Autumn Term	Spring Term	Summer Term
	Seasons of Change	Spring Term <u>Home Grown</u>	<u>Hidden World</u>
3	Charting changes in the environment and over time. Exploring how to cope with change.  How can we use change to our advantage?	Influential individuals from our region who have changed our lives locally, nationally and globally. What are the effects of innovation?	Using charts, maps and information to establish areas that remain enigmatic. What lies in wait - is still to come?
Lower KS2 Upper KS2	<ul> <li>Develop sensory vocabulary / knowledge using sight, smell, taste and texture.</li> <li>Analyse the taste, texture, smell and appearance of a range of foods (predominantly savoury).</li> <li>Demonstrate competence in following instructions / recipes.</li> <li>Broaden understanding of healthy food choices.</li> <li>Make informed choices of ingredients to design a meal.</li> <li>Join and combine a range of ingredients.</li> <li>Explore seasonality of fruit and vegetables as well as availability of produce locally.</li> <li>Discover origins of ingredients.</li> <li>Develop an awareness of sustainability in regard to farming of fish, meat, fruit, vegetables, arable and other products.</li> <li>Prepare food products taking into account the properties of ingredients and sensory characteristics.</li> <li>Weigh and measure using scales.</li> <li>Select and prepare foods for a particular purpose.</li> <li>Work safely and hygienically.</li> <li>Show an awareness and understanding of a healthy diet.</li> <li>Use a range of cooking techniques.</li> <li>Know where and how ingredients are grown and processed.</li> <li>Consider the influence of contemporary chefs and causes they champion.</li> </ul>	<ul> <li>Develop an understanding of the need for functional objects, e.g. items of clothing, items relating to food production, storage, preparation and presentation.</li> <li>Develop vocabulary relating to the creation of products designed to perform a specific task.</li> <li>Investigate and understand the limitations (including sustainability) of available materials.</li> <li>Investigate methods of joining pieces together to assemble a product.</li> <li>Produce a prototype.</li> <li>Use the prototype to create a pattern.</li> <li>Explore means of strengthening, hardening, stiffening materials.</li> <li>Explore methods of production appropriate to own design ideas.</li> <li>Use appropriate decoration techniques.</li> <li>Evaluate functional success of product.</li> <li>Use the correct vocabulary appropriate to technical terms associated with the project.</li> <li>Create 3D products using pattern, pieces and templates.</li> <li>Consider where seam allowances and allowances necessary for joining occur.</li> <li>Understand a pattern layout to maximise efficiency.</li> <li>Construct temporarily to ensure accuracy, e.g. pin, tack or tape pieces together before joining permanently.</li> <li>Where fabrics are used, gain experience of different methods of stitching including using a sewing machine under close supervision.</li> <li>Explore different adaptations to materials to fulfil the design criteria.</li> <li>Combine materials for strength and aesthetic effect.</li> <li>Decorate appropriately.</li> <li>Make a quality product.</li> </ul>	Develop vocabulary specific to the product to be designed.  Use mechanical systems such as gears, pulleys, levers and linkages.  Incorporate a circuit into a model.  Use electrical systems such a s switches, bulbs and buzzers.  Use ICT to control product.  Use rigid materials and structures to create levers and linkages.  Use linkages to make movement larger or more varied.  Develop a technical vocabulary specific and appropriate to the project and product being designed.  Use mechanical systems such as cams pulleys and gears.  Broaden knowledge and understanding of how and where these systems can be employed successfully.  Use electrical systems.  Include electrical components such as motors in designs.  Program, monitor and control a system using ICT.  Use specialist tools required to construct the materials being used.  Mark out and measure accurately.  Build frameworks to support mechanisms.

	Autumn Term	Spring Term	Summer Term
et	Secrets of the Deep	The Weird and the Wonderful	<u>Awesome Explorers</u>
4	Examining innovation underground and underwater.  What will the impact of new discoveries be?	Looking at civilisations and discoveries that have surprised astounded and amazed. What is the value of having an open mind?	Considering who we remember and why. Delving into methods of recording.  What are the common characteristics of adventure?
Lower KS2	Investigate a range of food stuffs sourced from beneath the ground	Investigate a range of products that have a function not obvious	Investigate a range of structures that exist to perform a specific
upper KS2	/ the sea to use as inspiration for a recipe.	from their form.	function.
	<ul> <li>Develop sensory vocabulary / knowledge using sight, smell, taste and texture.</li> </ul>	<ul> <li>Investigate and broaden knowledge of appropriate materials.</li> <li>Consider appropriate tools and methods of construction.</li> </ul>	<ul> <li>Develop and broaden vocabulary associated with structures to be designed to fulfil the design brief.</li> </ul>
	<ul> <li>Analyse the taste, texture, smell and appearance of a range of foods sourced from 'the deep'.</li> </ul>	Explore methods of joining associated with particular materials.     Ensure the success of function is considered.	<ul> <li>Create a shell or frame structure.</li> <li>Explore ways of making the structure more stable, e.g. by widening</li> </ul>
	<ul> <li>Demonstrate competence in following instructions / recipes.</li> </ul>	Make a prototype.	the base.
	Broaden understanding of healthy benefits of food choices.	<ul> <li>Use the prototype to make a template or pattern.</li> </ul>	Measure and mark out materials and component parts accurately.
	<ul> <li>Make informed choices of ingredients to design a recipe.</li> </ul>	<ul> <li>Explore fastenings that are best fit to design and function.</li> </ul>	<ul> <li>Develop a technical vocabulary specific and appropriate to the</li> </ul>
	<ul> <li>Join and combine ingredients adapting a basic recipe to give it a</li> </ul>	Decorate to reflect identity of user.	project and product being designed.
	twist.	<ul> <li>Use the correct vocabulary appropriate to technical terms</li> </ul>	<ul> <li>Use the correct terminology for tools and materials being used.</li> </ul>
	<ul> <li>Explore seasonality and availability of ingredients.</li> </ul>	associated with the project.	• Use specialist equipment to mark out, e.g. using a bradawl to mark
	<ul> <li>Develop an awareness of implications of new ingredients and their</li> </ul>	<ul> <li>Create 3D products using pattern, pieces and templates.</li> </ul>	hole positions.
	future use and sustainability.	<ul> <li>Consider where seam allowances and allowances necessary for</li> </ul>	<ul> <li>Join materials using appropriate methods, e.g. nails / screws / glue</li> </ul>
	<ul> <li>Prepare food products taking into account the properties of</li> </ul>	joining occur.	for wood.
	ingredients and sensory characteristics.	<ul> <li>Understand a pattern layout to maximise efficiency.</li> </ul>	<ul> <li>Build framework and refine and adapt to improve strength.</li> </ul>
	Weigh and measure using scales.	Construct temporarily to ensure accuracy, e.g. pin, tack or tape	<ul> <li>Explore how to reinforce complex structures.</li> </ul>
	Select and prepare foods for a particular purpose.	pieces together before joining permanently.	
	Work safely and hygienically.	Where fabrics are used, gain experience of different methods of	
	Show an awareness and understanding of a healthy diet.	stitching including using a sewing machine under close supervision.	
	Use a range of cooking techniques.	Explore different adaptations to materials to fulfil the design	
	Know where and how ingredients are grown and processed.	criteria.	
	Consider the influence of contemporary chefs and causes they	Combine materials for strength and aesthetic effect.	
	champion.	Decorate appropriately.      Make a graphic graph of	
		Make a quality product.	