#### **Long Term Plan for Design Technology Nursery**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Theme	All about Me/Autumn	Dark/Light Celebrations	Weather/It's cold	Spring/ New life	Our Town Tyldesley	Out and About
Key Learning	Making apple	=		experience construction and bollage, designing and making c		Design and make
	turnovers.  Make bread.  Leaf and twig collages.  Modelling with clay.  Construction in continuous provision.	<ul> <li>Making birthday cakes individually and collaboratively.</li> <li>Design and make cards for birthdays and Christmas.</li> <li>Make Christmas decorations.</li> <li>Construction in continuous provision.</li> </ul>	<ul> <li>linked to The Storm         Whale story.</li> <li>Make large clay dish         and paint with cold         colours.</li> <li>Making pancakes.</li> <li>Construction in         continuous         provision.</li> </ul>	<ul> <li>Easter cards.</li> <li>Make Easter baskets.</li> <li>Making Easter nests and Easter biscuits.</li> <li>Construction in continuous provision.</li> </ul>	<ul> <li>buildings found and Tyldesley.</li> <li>Work collaboratively to make large 3D model of school.</li> <li>Look at materials to see why certain ones are chosen to make uniforms for jobs.</li> <li>Make sandwiches for the café.</li> <li>Construction in continuous provision</li> </ul>	<ul> <li>boats and test if they float.</li> <li>Work collaboratively to make large 3D train and aeroplane for role play.</li> <li>Make pizza.</li> <li>Den making.</li> <li>Construction in continuous provision.</li> </ul>
EYFS Statements	<ul> <li>Uses various co</li> <li>Beginning to co</li> <li>Joins construct</li> <li>Realises tools o</li> <li>Uses available</li> </ul>	e interested in and describe the instruction materials instruct stacking blocks vertication pieces together to build are an be used for a purpose. The interest of the properties of the interest of the inter	ally and horizontally making end balance.			

#### **Long Term Plan for Design Technology** Reception

			2020-2021			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Theme	All about Me	Fairytales	Space	Minibeasts	Pirates	Where in the World
Key Learning		clay, collage, cutting		ction, junk modelling, den-mal	ducts, cutting skills.	
	<ul> <li>Making small world figures</li> <li>Exploring colour mixing</li> <li>Large and small scale constructions in continuous provision</li> <li>Large/small scale construction, junk modelling and opportunities to develop cutting skills in continuous provision</li> </ul>	<ul> <li>Following recipes to make toffee apples, gingerbread and mince pies</li> <li>Design and make puppets</li> <li>Christmas cards</li> <li>Making a calendar</li> <li>Making salt dough decorations</li> </ul>	<ul> <li>Exploring media and materials to create textures to represent moon craters</li> <li>Clay models of the moon</li> <li>Using and manipulating materials to create planet models</li> <li>Design and make pancakes</li> <li>Large/small scale construction, junk modelling and opportunities to develop cutting skills in continuous provision</li> </ul>	<ul> <li>Research, design and make a bug hotel/wormery</li> <li>Weaving skills</li> <li>Design and make Easter cards.</li> <li>Large/small scale construction, junk modelling and opportunities to develop cutting skills in continuous provision</li> </ul>	<ul> <li>Design and make a pirate costume with upcycling old clothes</li> <li>Exploring media and materials to make a treasure box/telescope</li> <li>Planning, making and evaluating smoothies</li> <li>Large/small scale construction, junk modelling and opportunities to develop cutting skills in continuous provision</li> </ul>	<ul> <li>Research and designing flags</li> <li>Planning, making and evaluating recipes e.g. pizza, ice cream, scones</li> <li>Where in the worldLarge/small scale construction, junk modelling and opportunities to develop cutting skills in continuous provision</li> </ul>

#### **EYFS Statements**

- Understands that different media can be combined to create new effects.
- Manipulates materials to achieve a planned effect.
- Constructs with a purpose in mind, using a variety of resources.
- Uses simple tools and techniques competently and appropriately.
- Selects appropriate resources and adapts work where necessary.
- Selects tools and techniques needed to shape, assemble and join materials they are using.
- Chooses particular colours to use for a purpose.
- Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.
- Children use what they have learned about media and materials in original ways, thinking about uses and purposes. They represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role play and stories.

# Long Term Plan for Design Technology Year 1 and Year 2

	2020-2021						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Key Questions		What did the journey to Bethlehem look like?	How will teddy get home?			What would you take on a picnic?	
Key Learning		Creating mechanisms using sliders and levers	Creating mechanisms with wheels and axles			Food-preparing fruit and vegetables	
Narional		Designing	Designing			Designing	
Curriculum		Generate ideas based on	Generate initial ideas			Design appealing	
objectives		simple design criteria and	and simple design criteria			products for a particular	
		their own experiences,	through talking and using			user based on simple	
		explaining what they could	own experiences.			design criteria.	
		make.	<ul> <li>Develop and</li> </ul>			Generate initial ideas and	
		<ul> <li>Develop, model and</li> </ul>	communicate ideas			design criteria through	
		communicate their ideas	through drawings and			investigating a variety of	
		through drawings and	mock-ups.			fruit and vegetables.	
		mock-ups with card and	Making			Communicate these	
		paper.	<ul> <li>Select from and use a</li> </ul>			ideas through talk and	
		Making	range of tools and			drawings.	
		<ul> <li>Plan by suggesting what</li> </ul>	equipment to perform			Making	
		to do next.	practical tasks such as			<ul> <li>Use simple utensils and</li> </ul>	
		<ul> <li>Select and use tools,</li> </ul>	cutting and joining to			equipment to e.g. peel,	
		explaining their choices, to	allow movement and			cut, slice, squeeze, grate	
		cut, shape and join paper	finishing.			and chop safely.	
		and card.	<ul> <li>Select from and use a</li> </ul>			<ul> <li>Select from a range of</li> </ul>	
		Use simple finishing	range of materials and			fruit and vegetables	
		techniques suitable for the	components such as			according to their	
		product they are creating.	paper, card, plastic and			characteristics e.g. colour,	
			wood according to their			texture and taste to create	
			characteristics.			a chosen product.	

Evaluating	Evaluating		Evaluating
•Explore a range of	<ul> <li>Explore and evaluate a</li> </ul>		<ul> <li>Taste and evaluate a</li> </ul>
existing books and	range of products with		range of fruit and
everyday products that use	wheels and axles.		vegetables to determine
simple sliders and levers.	<ul> <li>Evaluate their ideas</li> </ul>		the intended user's
Evaluate their product by	throughout and their		preferences.
discussing how well it	products against original		<ul> <li>Evaluate ideas and</li> </ul>
works in relation to the	criteria.		finished products against
purpose and the user and	Technical knowledge and		design criteria, including
whether it meets design	understanding		intended user and
criteria.	<ul> <li>Explore and use wheels,</li> </ul>		purpose.
Technical knowledge and	axles and axle holders.		Technical knowledge and
understanding	<ul> <li>Distinguish between</li> </ul>		understanding
Explore and use sliders	fixed and freely moving		<ul> <li>Understand where a</li> </ul>
and levers.	axles.		range of fruit and
Understand that	<ul> <li>Know and use technical</li> </ul>		vegetables come from e.g.
different mechanisms	vocabulary relevant to the		farmed or grown at home.
produce different types of	project.		<ul> <li>Understand and use</li> </ul>
movement.			basic principles of a
Know and use technical			healthy and varied diet to
vocabulary relevant to the			prepare dishes, including
project.			how fruit and vegetables
			are part of The eatwell
			plate.
			<ul> <li>Know and use technical</li> </ul>
			and sensory vocabulary
			relevant to the project.

# Long Term Plan for Design Technology Year 1 and Year 2

2021-2022							
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Key		How did the Billy Goats		How can you join fabric to	What makes a great		
Questions		Gruff cross the river?		create a puppet?	tropical fruit salad?		
Key		Structures-freestanding		Textiles-templates and	Food-preparing fruit		
Learning		structures		joining techniques	and vegetables		
Narional		Designing		Designing	Designing		
Curriculum		Generate ideas based on		<ul> <li>Design a functional and</li> </ul>	Design appealing		
objectives		simple design criteria and		appealing product for a	products for a particular		
•		their own experiences,		chosen user and purpose	user based on simple		
		explaining what they could		based on simple design	design criteria.		
		make.		criteria.	Generate initial ideas		
		<ul> <li>Develop, model and</li> </ul>		<ul> <li>Generate, develop,</li> </ul>	and design criteria through		
		communicate their ideas		model and communicate	investigating a variety of		
		through talking, mock-ups		their ideas as appropriate	fruit and vegetables.		
		and drawings.		through talking, drawing,	Communicate these		
		Making		templates, mock-ups and	ideas through talk and		
		<ul> <li>Plan by suggesting what</li> </ul>		information and	drawings.		
		to do next.		communication	Making		
		<ul> <li>Select and use tools,</li> </ul>		technology.	Use simple utensils and		
		skills and techniques,		Making	equipment to e.g. peel,		
		explaining their choices.		<ul> <li>Select from and use a</li> </ul>	cut, slice, squeeze, grate		
		Select new and		range of tools and	and chop safely.		
		reclaimed materials and		equipment to perform	Select from a range of		
		construction kits to build		practical tasks such as	fruit and vegetables		
		their structures.		marking out, cutting,	according to their		
		Use simple finishing		joining and finishing.	characteristics e.g. colour,		
		techniques suitable for the		<ul> <li>Select from and use</li> </ul>	texture and taste to create		
		structure they are creating.		textiles according to their	a chosen product.		

Evaluating	characteristics.	Evaluating
Explore a range of	Evaluating	Taste and evaluate a
existing freestanding	Explore and evalu	ate a range of fruit and
structures in the school	range of existing tex	tile vegetables to determine
and local environment e.g	products relevant to	the the intended user's
everyday products and	project being under	taken. preferences.
buildings.	Evaluate their idea	• Evaluate ideas and
Evaluate their product be a second of the second of t	throughout and the	ir final finished products against
discussing how well it	products against ori	ginal design criteria, including
works in relation to the	design criteria.	intended user and
purpose, the user and	Technical knowledg	ge and purpose.
whether it meets the	understanding	Technical knowledge and
original design criteria.	Understand how s	imple understanding
Technical knowledge and	3-D textile products	are • Understand where a
understanding	made, using a temp	late to range of fruit and
Know how to make	create two identical	vegetables come from e.g.
freestanding structures	shapes.	farmed or grown at home.
stronger, stiffer and more	Understand how t	o join • Understand and use
stable.	fabrics using differe	nt basic principles of a
Know and use technical	techniques e.g. runi	ning healthy and varied diet to
vocabulary relevant to the	stitch, glue, over sti	tch, prepare dishes, including
project.	stapling.	how fruit and vegetables
	Explore different	are part of The eatwell
	finishing techniques	e.g. plate.
	using painting, fabri	c • Know and use technical
	crayons, stitching, s	equins, and sensory vocabulary
	buttons and ribbons	relevant to the project.
	Know and use technique	nnical
	vocabulary relevant	to the

project.

# Long Term Plan for Design Technology Year 3 and Year 4

	2020-2021							
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Key		What is the best way to		What is the best way to		What does a		
Questions		costruct a desk lamp?		build a desk tidy?		Mediterranean diet look like?		
Key		Electrical systems-simple		Structures-shell structures		Food-healthy and		
Learning		circuits and switches				varied diet		
Narional		Designing		Designing		Designing		
Curriculum		<ul> <li>Gather information</li> </ul>		Generate realistic ideas		Generate and clarify		
objectives		about needs and wants,		and design criteria		ideas through discussion		
		and develop design criteria		collaboratively through		with peers and adults to		
		to inform the design of		discussion, focusing on the		develop design criteria		
		products that are fit for		needs of the user and		including appearance,		
		purpose, aimed at		purpose of the product.		taste, texture and aroma		
		particular individuals or		<ul> <li>Develop ideas through</li> </ul>		for an appealing product		
		groups.		the analysis of existing		for a particular user and		
		<ul> <li>Generate, develop,</li> </ul>		products and use		purpose.		
		model and communicate		annotated sketches and		Use annotated sketches		
		realistic ideas through		prototypes to model and		and appropriate		
		discussion and, as		communicate ideas.		information and		
		appropriate, annotated		Making		communication		
		sketches, cross-sectional		<ul> <li>Order the main stages of</li> </ul>		technology, such as web-		
		and exploded diagrams.		making.		based recipes, to develop		
		Making		Select and use		and communicate ideas.		
		<ul> <li>Order the main stages of</li> </ul>		appropriate tools to		Making		
		making.		measure, mark out, cut,		Plan the main stages of a		
		<ul> <li>Select from and use tools</li> </ul>		score, shape and assemble		recipe, listing ingredients,		
		and equipment to cut,		with some accuracy.		utensils and equipment.		
		shape, join and finish with		Explain their choice of		Select and use		
		some accuracy. • Select		materials according to		appropriate utensils and		

from and use materials functional properties and equipment to prepare and and components, including aesthetic qualities. combine ingredients. construction materials and • Use finishing techniques • Select from a range of electrical components suitable for the product ingredients to make they are creating. according to their appropriate food products, functional properties and **Evaluating** thinking about sensory aesthetic qualities. Investigate and evaluate characteristics. **Evaluating** a range of existing shell **Evaluating** • Investigate and analyse a structures including the Carry out sensory range of existing batterymaterials, components evaluations of a variety of ingredients and products. powered products. and techniques that have Record the evaluations Evaluate their ideas and been used. products against their own • Test and evaluate their using e.g. tables and design criteria and identify own products against simple graphs. the strengths and areas for design criteria and the Evaluate the ongoing intended user and work and the final product improvement in their work. purpose. with reference to the Technical knowledge and Technical knowledge and design criteria and the understanding understanding views of others. Understand and use • Develop and use Technical knowledge and electrical systems in their knowledge of how to understanding products, such as series construct strong, stiff shell Know how to use circuits incorporating structures. appropriate equipment switches, bulbs and • Develop and use and utensils to prepare buzzers. knowledge of nets of and combine food. Apply their cubes and cuboids and, Know about a range of understanding of where appropriate, more fresh and processed computing to program and complex 3D shapes. ingredients appropriate for control their products. Know and use technical their product, and whether Know and use technical vocabulary relevant to the they are grown, reared or vocabulary relevant to the caught. • Know and use project. relevant technical and project. sensory vocabulary appropriately.

#### Long Term Plan for Design Technology Year 3 and Year 4

	2021-2022						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Key		How would you use a	What makes the basis of a			How does a flat paper	
Questions		moving model to explain a	good soup recipe?			pattern turn into a pencil	
		volcano?				case?	
Key		Mechanical systems-levers	Food-healthy and			Textiles-2D shape	
Learning		and linkages	varied diet			to 3D product	
Narional		Designing	Designing			Designing	
Curriculum		<ul> <li>Generate realistic ideas</li> </ul>	Generate and clarify			Generate realistic ideas	
objectives		and their own design	ideas through discussion			through discussion and	
		criteria through discussion,	with peers and adults to			design criteria for an	
		focusing on the needs of	develop design criteria			appealing, functional	
		the user.	including appearance,			product fit for purpose and	
		<ul> <li>Use annotated sketches</li> </ul>	taste, texture and aroma			specific user/s.	
		and prototypes to develop,	for an appealing product			<ul> <li>Produce annotated</li> </ul>	
		model and communicate	for a particular user and			sketches, prototypes, final	
		ideas.	purpose.			product sketches and	
		Making	Use annotated sketches			pattern pieces.	
		<ul> <li>Order the main stages of</li> </ul>	and appropriate			Making	
		making.	information and			<ul> <li>Plan the main stages of</li> </ul>	
		<ul> <li>Select from and use</li> </ul>	communication			making.	
		appropriate tools with	technology, such as web-			<ul> <li>Select and use a range of</li> </ul>	
		some accuracy to cut,	based recipes, to develop			appropriate tools with	
		shape and join paper and	and communicate ideas.			some accuracy e.g. cutting,	
		card.	Making			joining and finishing.	
		<ul> <li>Select from and use</li> </ul>	Plan the main stages of a			Select fabrics and	
		finishing techniques	recipe, listing ingredients,			fastenings according to	
		suitable for the product	utensils and equipment.			their functional	
		they are creating.	Select and use			characteristics e.g.	
			appropriate utensils and			strength, and aesthetic	

Evaluating	equipment to prepare and	qualities e.g. pattern.
Investigate and analyse	combine ingredients.	Evaluating
books and, where	Select from a range of	<ul> <li>Investigate a range of 3-D</li> </ul>
available, other products	ingredients to make	textile products relevant to
with lever and linkage	appropriate food products,	the project.
mechanisms.	thinking about sensory	<ul> <li>Test their product</li> </ul>
Evaluate their own	characteristics.	against the original design
products and ideas against	Evaluating	criteria and with the
criteria and user needs, as	Carry out sensory	intended user.
they design and make.	evaluations of a variety of	<ul> <li>Take into account others'</li> </ul>
Technical knowledge and	ingredients and products.	views.
understanding	Record the evaluations	<ul> <li>Understand how a key</li> </ul>
Understand and use	using e.g. tables and	event/individual has
lever and linkage	simple graphs.	influenced the
mechanisms.	Evaluate the ongoing	development of the
Distinguish between	work and the final product	chosen product and/or
fixed and loose pivots.	with reference to the	fabric.
Know and use technical	design criteria and the	Technical knowledge and
vocabulary relevant to the	views of others.	understanding
project.	Technical knowledge and	<ul> <li>Know how to strengthen,</li> </ul>
	understanding	stiffen and reinforce
	Know how to use	existing fabrics.
	appropriate equipment	<ul> <li>Understand how to</li> </ul>
	and utensils to prepare	securely join two pieces of
	and combine food.	fabric together.
	Know about a range of	<ul> <li>Understand the need for</li> </ul>
	fresh and processed	patterns and seam
	ingredients appropriate for	allowances.
	their product, and whether	<ul> <li>Know and use technical</li> </ul>
	they are grown, reared or	vocabulary relevant to the
	caught.	project.
	Know and use relevant	
	technical and sensory	
	vocabulary appropriately.	

# Long Term Plan for Design Technology Year 5 and Year 6

2020-2021							
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Key		How can 3 pieces of fabric	What foods typically form		How does a ferris wheel		
Questions		make a 3D object?	part of a South American diet?		turn?		
Key		Textiles-combining	Food-celebrating culture		Mechanical systems-		
Learning		different fabric shapes			pulleys or gears		
Narional		Designing	Designing		Designing		
Curriculum		Generate innovative	Generate innovative		<ul> <li>Generate innovative</li> </ul>		
objectives		ideas by carrying out	ideas through research		ideas by carrying out		
		research including surveys,	and discussion with peers		research using surveys,		
		interviews and	and adults to develop a		interviews, questionnaires		
		questionnaires.	design brief and criteria for		and web-based resources.		
		<ul> <li>Develop, model and</li> </ul>	a design specification.		<ul> <li>Develop a simple design</li> </ul>		
		communicate ideas	<ul> <li>Explore a range of initial</li> </ul>		specification to guide their		
		through talking, drawing,	ideas, and make design		thinking.		
		templates, mock-ups and	decisions to develop a final		Develop and		
		prototypes and, where	product linked to user and		communicate ideas		
		appropriate,	purpose.		through discussion,		
		computeraided design.	Use words, information		annotated drawings,		
		<ul> <li>Design purposeful,</li> </ul>	and communication		exploded drawings and		
		functional, appealing	technology as appropriate		drawings from different		
		products for the intended	to develop and		views.		
		user that are fit for	communicate ideas.		Making		
		purpose based on a simple	Making		<ul> <li>Produce detailed lists of</li> </ul>		
		design specification.	Write a step-by-step		tools, equipment and		
		Making	recipe, including a list of		materials. Formulate step-		
		<ul> <li>Produce detailed lists of</li> </ul>	ingredients, equipment		by-step plans and, if		
		equipment and fabrics	and utensils		appropriate, allocate tasks		
		relevant to their tasks. •	Select and use		within a team.		

Formulate step-by-step plans and, if appropriate, allocate tasks within a team.

• Select from and use a range of tools and equipment to make products that are accurately assembled and well finished. Work within the constraints of time, resources and cost.

#### **Evaluating**

- Investigate and analyse textile products linked to their final product.
- Compare the final product to the original design specification.
- Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose.
- Consider the views of others to improve their work.

Technical knowledge and understanding

- A 3-D textile product can be made from a combination of accurately made pattern pieces, fabric shapes and different fabrics.
- Fabrics can be strengthened, stiffened and reinforced where appropriate.

appropriate utensils and equipment accurately to measure and combine appropriate ingredients.

 Make, decorate and present the food product appropriately.

#### **Evaluating**

- Carry out sensory evaluations of a range of relevant products and ingredients. Record the evaluations using e.g. tables/graphs/charts such as star diagrams.
- Evaluate the final product with reference back to the design brief and design specification, taking into account the views of others when identifying improvements.
- Know how to use utensils and equipment including heat sources to prepare and cook food.
- Know and use relevant technical and sensory vocabulary.

• Select from and use a range of tools and equipment to make products that that are accurately assembled and well finished. Work within the constraints of time, resources and cost.

#### **Evaluating**

- Compare the final product to the original design specification.
- Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose.
- Consider the views of others to improve their work.
- Investigate famous manufacturing and engineering companies relevant to the project. Technical knowledge and understanding
- Understand that mechanical and electrical systems have an input, process and an output.
- Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement.
- Know and use technical vocabulary relevant to the project.

#### **Long Term Plan for Design Technology** Year 5 and Year 6

	2021-2022						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Key	Where would a spider want		How do the seasons affect			How can you use electrical	
Questions	to live?		the availability of food?			circuits to improve a	
						game?	
Key	Structures-frame		Food-seasonality			Electrical systems-more	
Learning	structures					complicated systems and	
						switches	
Narional	Designing		Designing			Designing	
Curriculum	Carry out research into		Generate innovative			Use research to develop	
objectives	user needs and existing		ideas through research			a design specification for a	
	products, using surveys,		and discussion with peers			functional product that	
	interviews, questionnaires		and adults to develop a			responds automatically to	
	and web-based resources.		design brief and criteria for			changes in the	
	Develop a simple design		a design specification.			environment. Take account	
	specification to guide the		<ul> <li>Explore a range of initial</li> </ul>			of constraints including	
	development of their ideas		ideas, and make design			time, resources and cost.	
	and products, taking		decisions to develop a final			Generate and develop	
	account of constraints		product linked to user and			innovative ideas and share	
	including time, resources		purpose.			and clarify these through	
	and cost.		<ul> <li>Use words, annotated</li> </ul>			discussion.	
	Generate, develop and		sketches and information			Communicate ideas	
	model innovative ideas,		and communication			through annotated	
	through discussion,		technology as appropriate			sketches, pictorial	
	prototypes and annotated		to develop and			representations of	
	sketches.		communicate ideas.			electrical circuits or circuit	
	Making		Making			diagrams.	
	• Formulate a clear plan,		Write a step-by-step			Making	
	including a step-by-step		recipe, including a list of			Formulate a step-by-step	
	list of what needs to be		ingredients, equipment			plan to guide making,	
	done and lists of resources		and utensils			listing tools, equipment,	

# 'Never settle for less than your best' Jesus said, 'I am the light of the world. Whoever follows Me will not walk in darkness, but will have the light of life.' John 8:12

to be used.	
Competently select from	
and use appropriate tools	ĺ
to accurately measure,	ĺ
mark out, cut, shape and	
join construction materials	ĺ
to make frameworks.	
<ul> <li>Use finishing and</li> </ul>	
decorative techniques	
suitable for the product	ĺ
they are designing and	
making.	ĺ
Evaluating	ĺ
<ul> <li>Investigate and evaluate</li> </ul>	
a range of existing frame	
structures	l

- structures.
   Critically evaluate their products against their design specification, intended user and purpose, identifying strengths and areas for development, and carrying out appropriate tests.
- Research key events and individuals relevant to frame structures.
   Technical knowledge and understanding
- Understand how to strengthen, stiffen and reinforce 3-D frameworks.
- Know and use technical vocabulary relevant to the project.

- Select and use appropriate utensils and equipment accurately to measure and combine appropriate ingredients.
- Make, decorate and present the food product appropriately for the intended user and purpose.

#### Evaluating

- Evaluate the final product with reference back to the design brief and design specification, taking into account the views of others when identifying improvements.
- Understand how key chefs have influenced eating habits to promote varied and healthy diets.
   Technical knowledge and understanding
- Know how to use utensils and equipment including heat sources to prepare and cook food.
- Understand about seasonality in relation to food products and the source of different food products.
- Know and use relevant technical and sensory vocabulary.

materials and components.
Competently select and accurately assemble materials, and securely

accurately assemble materials, and securely connect electrical components to produce a reliable, functional product.

• Create and modify a computer control program to enable an electrical product to work automatically in response to changes in the environment.

#### **Evaluating**

- Continually evaluate and modify the working features of the product to match the initial design specification.
- Test the system to demonstrate its effectiveness for the intended user and purpose. Technical knowledge and understanding
- Understand and use electrical systems in their products.
- Apply their understanding of computing to program, monitor and control their products.
- Know and use technical vocabulary relevant to the project.