

Curriculum Progression Map Subject: Design and Technology

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils explore, design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Children are taught to use tools correctly and safely to combine their designing and making skills alongside their knowledge and understanding in order to construct products that satisfy needs and challenges. They will also learn to apply the principles of a healthy diet and prepare and cook a variety of dishes. As the children make their way through the school, they will develop their understanding to explore, Investigate and analyse products, explore complex structures and use mechanical systems and electrical systems in products.

Key areas	Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Key (Technical) knowledge	PD Health and Self- care Early Learning Goal Children know the	Understanding the difference between fruits and vegetables	Understanding what makes a balanced diet	Learning that climate affects food growth	Understanding the impact of the cost and importance of budgeting	Understanding where food comes from.	Learning how to research a recipe by ingredient
Food	importance for good health of	Describing and grouping fruits by	Knowing where to find the nutritional information on	Working with cooking equipment safely and	while planning ingredients for biscuits	Understanding what constitutes a balanced diet	Recording the relevant ingredients and



	physical exercise,	texture and taste	packaging	hygienically			equipment needed
	and a healthy diet,				Understanding	Learning to adapt	for a recipe
	and talk about		Knowing the five	Learning that	the environmental	a recipe to make it	
	ways to keep		food groups	imported foods	impact on future	healthier	Understanding the
	healthy and safe.			travel from far	product and cost		combinations of
				away and this can	of production	Comparing two	food that will
				negatively impact		adapted recipes	complement one
				the environment		using a nutritional	another
						calculator and	
				Learning that		then identifying	Understanding
				vegetables and		the healthier	where food comes
				fruit grow in		option	from, describing
				certain seasons			the process of
							'Farm to Fork' for a
				Learning that each			given ingredient
				fruit and vegetable			
				gives us nutritional			
				benefits			
				Learning to use,			
				store and clean a			
				knife safely			
Key	UTW	Learning that	Learning that	Understanding	Learning that	Knowing that an	Using a bench
(Technical)	Technology	levers and sliders	mechanisms are	how pneumatic	products change	input is the motion	hook to saw safely
knowledge	Early Learning Goal	are mechanisms	a collection of	systems work	and evolve over	used to start a	and effectively
Kilowieuge	Children recognise	and can make	moving parts that		time	mechanism	
	that a range of	things move	work together in a	Learning that		_	Exploring cams,
Mechanisms	technology is used		machine	mechanisms are	Learning that all	Knowing that	learning that
	in places such as	Identifying		a system of parts	moving things	output is the	different shaped
	homes and	whether a	Learning that there	that work together	have kinetic	motion that	cams produce
	schools. They	mechanism is a	is an input and	to create motion	energy	happens as a result	different follower
	select and use	lever or slider and	output in a			of starting the	



	technology for	determining what	mechanism	Understanding	Understanding	input	movements
	particular	movement the		that pneumatic	that kinetic energy		
	purposes.	mechanism will	Identifying	systems can be	is the energy that	Knowing that	Exploring types of
		make	mechanisms in	used as part of a	something (object	mechanisms	motions and
			everyday objects	mechanism	person) has by	control movement	direction of a
		Using the			being in motion		motion
		vocabulary: up,	Learning that a	Learning that		Describing	
		down, left, right,	lever is something	pneumatic systems		mechanisms that	
		vertical and	that turns on a	force air over a		can be used to	
		horizontal to	pivot	distance to create		change one kind of	
		describe		movement		motion into	
		movement	Learning that a			another	
			linkage is a system				
		Identifying what	of levers that are				
		mechanism makes	connected by				
		a toy or vehicle roll	pivots				
		forwards					
			Exploring wheel				
		Learning that for a	mechanisms				
		wheel to move it					
		must be attached	Learning how axels				
		to an axle	help wheels to				
			move a vehicle				
Key	UTW	Describing	Identifying natural	Identifying	Learning what	Exploring how to	Knowing that
(Technical)	Technology	the purpose	and man-made	features of a castle	pavilions are and	create a strong	structures can be
knowledge	Early Learning Goal	of structures,	structures		their purpose	beam	strengthened by
Kilowicuge	Children recognise	including windmills		Identifying suitable			manipulating
	that a range of		Identifying when a	materials to be	Building on prior	Identifying arch	materials and
Structures	technology is used	Learning how to	structure is more	selected and	knowledge of net	and beam bridges	shapes
	in places such as homes and	turn 2D nets into	or less stable than	used for a castle,	structures and	and understanding	I al a constituit di constituit di
		3D structures	another	considering	broadening	the terms:	Identifying the
	schools. They			weight,	knowledge of	compression and	shell structure in



select and use	Learning that the	Knowing that	compression,	frame structures	tension	everyday life (cars,
technology for	shape of materials	shapes and	tension			aeroplanes, tins,
particular	can be changed to	structures with		Learning that	Identifying	cans)
purposes.	improve the	wide, flat bases or	Extending the	architects consider	stronger and	
	strength and	legs are the most	knowledge of wide	light, shadow and	weaker structures	Understanding
EAD	stiffness of	stable	and flat based	patterns when		man made and
Early Learning Goal	structures		objects are more	designing	Finding different	natural structures
Children sing		Understanding	stable		ways to reinforce	
songs, make music	Understanding	that the shape of a		Implementing	structures	
and dance, and	that cylinders are a	structure affects	Understanding the	frame and shell		
experiment with	strong type of	its strength	terminology of	structure	Understanding	
ways of changing	structure that are		strut, tie, span,	knowledge	how triangles can	
them. They safely	often used for	Using the	beam		be used to	
use and explore a	windmills and	vocabulary:		Considering	reinforce bridges	
variety of	lighthouses	strength, stiffness	Understanding the	effective and		
materials, tools		and stability	difference	ineffective designs	Articulating the	
and techniques,	Understanding		between frame		difference	
experimenting	that windmill	Knowing that	and shell structure		between beam,	
with colour,	turbines use wind	materials can be			arch, truss and	
design, texture,	to turn and make	manipulated to			suspension bridges	
form and function.	the machines	improve strength				
	inside work	and stiffness				
EAD						
Early Learning Goal	Understanding	Building a strong				
Children use what	that axles are used	and stiff structure				
they have learnt	in structures and	by folding paper				
about media and	mechanisms to					
materials in	make parts turn in					
original ways,	a circle					
thinking about						
uses and purposes.	Developing					
They represent	awareness of					



	their own ideas, thoughts and feelings through design and technology, art, music, dance, role play and stories.	different structures for different purposes					
Key (Technical) knowledge Textiles	EAD Early Learning Goal Children sing songs, make music and dance, and experiment with ways of changing them. They safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. EAD Early Learning Goal Children use what	Learning different ways in which to join fabrics together: pinning, stapling, gluing	Joining items using fabric glue or stitching Identifying benefits of these techniques Threading a needle Sewing running stitch, with evenly spaced, neat, even stitches to join fabric Neatly pinning and cutting fabric using a template	Threading needles with greater independence Tying knots with greater independence Sewing cross stitch and appliqué Understanding the need to count the thread on a piece of even weave fabric in each direction to create uniform size and appearance	Understanding that there are different types of fastenings and what they are Articulating the benefits and disadvantages of different fastening types	Learning to sew blanket stitch to join fabric Applying blanket stitch so the space between the stitches are even and regular Threading needles independently	Learning different decorative stitches Application and outcome of the individual technique Sewing accurately with even regularity of stitches



	they have learnt 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.			Understanding that fabrics can be layered for affect			
Key (Technical) knowledge Electrical Systems	N/A	N/A	N/A	Understanding what static electricity is and how it moves objects through attraction or repulsion Generating static electricity independently Using static	Learning how electrical items work Identifying electrical products Learning what electrical conductors and insulators are Understanding	Learning the key components used to create a functioning circuit Learning that graphite is a conductor and can be used as part of a circuit Learning the difference	Understanding how electromagnetic motors work Learning that batteries contain acid, which can be dangerous if they leak Learning that when electricity enters a magnetic
				electricity to make objects move in a desired way	that a battery contains stored electricity and can	between series and parallel circuits	enters a magnetic field it can make a motor



Key Skills Designing Structures	Learning the importance of a clear design criteria Including individual preferences and requirements in a design	Generating and communicating ideas using sketching and modelling Learning about different types of structures, found in the natural world and in everyday objects	Designing a castle with key features to appeal to a specific person/purpose Drawing and labelling a castle design using 2D shapes, labelling: the 3D shapes that will create the features -	be used to power products Identifying the features of a torch Understanding how a torch works Articulating the positives and negatives about different torches Designing a stable pavilion structure that is aesthetically pleasing and selecting materials to create a desired effect Building frame structures designed to support weight	Understanding that breaks in a circuit will stop it from working Designing a stable structure that is able to support weight Creating frame structure with focus on triangulation	Designing a playground featuring a variety of different structures, giving careful consideration to how the structures will be used, considering effective and ineffective designs
		everyday objects	will create the features - materials need and colours	support weight		ineffective designs
Key Skills	Explaining how to adapt mechanisms, using	Creating a class design criteria for a moving monster	Designing a toy which uses a pneumatic system	Designing a shape that reduces air resistance	Designing a pop- up book which uses a mixture of	After experimenting with a range of
Designing	bridges or guides				structures and	cams, creating a



	to cont		Developing design	Drawing a net to	mechanisms	design for an
Mechanisms	movem	8	criteria from a	create a structure		automata toy
		for a specific	design brief	from	Naming each	based on a choice
	Designi	ing a audience in			mechanism, input	of cam to create a
	moving	story book accordance with a	Generating ideas	Choosing shapes	and output	desired movement
	for a giv	ven design criteria	using thumbnail	that increase or	accurately	
	audiend	ce	sketches and	decrease speed as		Understanding
		Selecting a suitable	e exploded diagrams	a result of air	Storyboarding	how linkages
	Designi	ing a vehicle linkage system to		resistance	ideas for a book	change the
	that inc	cludes produce the	Learning that			direction of a force
	wheels	, axles and desired motions	different types of	Personalising a		
	axle ho	lders, which	drawings are used	design		Making things
	will allo	ow the Designing a wheel	in design to explain			move at the same
	wheels	to move	ideas clearly			time
		Selecting	·			
	Creatin	ng clearly appropriate				
		d drawings materials based on				
		Ilustrate their properties				
	movem	l ' '				
Key Skills		n/a n/a	Designing a game	Designing a	Designing an	Designing a steady
,			that works using	torch, giving	electronic	hand game -
Danienius.			static electricity,	consideration to	greetings card with	identifying and
Designing			including the	the target	a simple electrical	naming the
			instructions for	audience and	control circuit	components
Electrical			playing the game	creating both		required
Systems				design and success	Creating a labelled	
,			Identifying a	criteria focusing	design showing	Drawing a design
			design criteria and	on features of	positive and	from three
			a target audience	individual design	negative parts in	different
				ideas	relation to the LED	perspectives
					and the battery	
						Generating ideas



Key Skills Designing Cooking and Nutrition	PD Health and Self- care Early Learning Goal Children know the importance for good health of physical exercise, and a healthy diet, and talk about ways to keep healthy and safe.	N/A	Designing a healthy meal based on a food combination which work well together	Creating a healthy and nutritious recipe using seasonal ingredients, considering the taste, texture, smell and appearance of the dish	Designing a biscuit within a given budget, drawing upon previous taste testing	Adapting a traditional recipe, understanding that the nutritional value of a recipe alters if you remove, substitute or add additional ingredients Writing an amended method for a recipe to	through sketching and discussion Modelling ideas through prototypes Writing a recipe, explaining the key steps, method and ingredients Including facts and drawings from research undertaken
						incorporate the relevant changes to ingredients Designing appealing	
						packaging to reflect a recipe	
Key Skills		Using a template to create a design	Designing a pouch	Designing and making a template	Writing design criteria for a	Designing a stuffed toy considering the	Designing a piece of clothing in
Designing		for a puppet		from an existing cushion and applying individual	product, articulating decisions made	main component shapes required and creating	accordance to specification linked to set of design



Textiles			design criteria		an appropriate	criteria to fit a
				Designing a	template	specific theme
				personalised Book		
				sleeve	Considering	Annotating designs
					proportions of	
					individual	
					components	
Key Skills	Making stable	Making a structure	Constructing	Creating a range of	Making a range of	Building a range
	structures from	according to	a range of 3D	different shaped	different shaped	of structures
Making	card, tape and glue	design criteria	geometric shapes	frame structures	beam bridges	drawing upon new
IVIANIII			using nets			and prior
	Following	Creating joints and		Making a variety of	Using triangles	knowledge of
Structures	instructions to cut	structures from	Creating special	free standing	to create truss	structures
	and assemble the	paper/card and	features for	frame structures of	bridges that span a	
	supporting	tape	individual designs	different shapes	given distance and	Measuring,
	structure of a			and sizes	supports a load	marking and
	windmill		Making facades	Caladia	B. Haller and a section	cutting wood to
	N 4 a lei a a		from a range of	Selecting	Building a wooden	create a range of
	Making		recycled materials	appropriate materials to build a	bridge structure	structures
	functioning turbines and				Indonondontly	Using a range
	axles which are			strong structure and for the	Independently	Using a range of materials to
	assembled into a			cladding	measuring and marking wood	reinforce and add
	main supporting			Clauding	accurately	decoration to
	structure			Reinforcing	accurately	structures
	Structure			corners to	Selecting	Structures
				strengthen a	appropriate tools	
				structure	and equipment for	
					particular tasks	
				Creating a design		
				in accordance with	Using the correct	
				a plan	techniques to saws	



					safely	
				Learning to create		
				different textural	Identifying where	
				effects with	a structure needs	
				materials	reinforcement and	
					using card corners	
					for support	
Key Skills	Following a design	Making linkages	Creating a	Measuring,	Following a design	Measuring,
, ,	to create moving	using card for	pneumatic system	marking, cutting	brief to make a	marking and
	models that use	levers and split	to create a desired	and assembling	pop up book,	checking the
Making	levers and sliders	pins for pivots	motion	with increasing	neatly and with	accuracy of the
				accuracy	focus on accuracy	jelutong and dowel
Mechanisms	Adapting	Experimenting	Building secure			pieces required
	mechanisms	with linkages	housing for a	Making a model	Making	
		adjusting the	pneumatic system	based on a chosen	mechanisms and/	Measuring,
		widths, lengths		design	or structures using	marking and
		and thicknesses of	Using syringes		sliders, pivots and	cutting
		card used	and balloons to		folds to produce	components
			create different		movement	accurately using a
		Cutting and	types of pneumatic			ruler and scissors
		assembling	systems to make		Using layers and	
		components neatly	a functional and		spacers to hide	Assembling
			appealing		the workings of	components
		Selecting materials	pneumatic toy		mechanical parts	accurately to make
		according to their			for an aesthetically	a stable frame
		characteristics	Selecting materials		pleasing result	
			due to their			Understanding
		Following a design	functional and			that for the frame
		brief	aesthetic			to function
			characteristics			effectively the
						components must
			Manipulating			be cut accurately



	1	1	1				_
				materials to create			and the joints of
				different effects by			the frame secured
				cutting, creasing,			at right angles
				folding, weaving			
							Selecting
							appropriate
							materials based
							on the materials
							being joined and
							the speed at which
							the glue needs to
							dry/set
Key Skills	N/A	N/A	N/A	Making an	Making a torch	Making a working	Making
•				electrostatic game,	with a working	circuit	electromagnetic
0.0 - 1.1				referring to the	electrical circuit		motors and
Making				design criteria	and switch	Creating an	tweaking the
						electronics	motor to improve
Electrical				Using a wider	Using appropriate	greeting card,	its function
Systems				range of materials	equipment to	referring to a	
				and equipment	cut and attach	design criteria	Constructing a
				safely	materials		stable base for an
						Mapping out	electromagnetic
				Using electrostatic	Assembling a torch	where different	game
				energy to move	according to the	components of the	
				objects in isolation	design and success	circuit will go	Accurately cutting,
				as well as in part of	criteria		folding and
				a system			assembling a net
							Decorating the
							base of the game
							to a high quality



							finish
							Making and testing a circuit
							Incorporating a circuit into a base
Key Skills	PD	Chopping fruit and	Slicing food safely	Knowing how to	Following a baking	Cutting and	Following a recipe,
	Health and Self-	vegetables safely	using the bridge or	prepare	recipe	preparing	including using the
Making	care	to make a	claw grip	themselves and a	6 1: 61	vegetables safely	correct quantities
Making	Early Learning Goal Children know the	smoothie	Constructing	workspace to cook	Cooking safely,	Using aguinment	of each ingredient
Cooking and	importance for	Identifying if a	Constructing a wrap (or similar)	safely in, learning the basic rules to	following basic hygiene rules	Using equipment safely, including	Adapting a recipe
Cooking and	good health of	food is a fruit or a	that meets a	avoid food	Tryglerie rules	knives, hot pans	based on research
Nutrition	physical exercise,	vegetable	design brief	contamination	Adapting a recipe	and hobs	bused off research
	and a healthy diet,		area.g.r arre.				Working to a given
	and talk about	Learning where		Following the		Knowing how to	timescale
	ways to keep	and how fruits and		instructions within		avoid cross-	
	healthy and safe.	vegetables grow		a recipe		contamination	Working safely and
							hygienically with
						Following a step by	independence
						step method	
						carefully to make a recipe	
Key Skills		Cutting fabric	Selecting and	Following design	Making and testing	Creating a 3D	Using template
Key Skills		neatly with	cutting fabrics for	criteria to create a	a paper template	stuffed toy from a	pinning panels
		scissors	sewing	cushion	with accuracy and	2D design	onto fabric
Making					in keeping with the		
		Using joining	Decorating a	Selecting and	design criteria	Measuring,	Marking and
Textiles		methods to	pouch using fabric	cutting fabrics with		marking and	cutting fabric
		decorate a puppet	glue or running	ease using fabric	Measuring,	cutting fabric	accurately, in
			stitch	scissors	marking and	accurately and	accordance with a



	Sequencing steps			cutting fabric using	independently	design
	for construction		Sewing cross stitch	a paper template	,	
			to join fabric		Creating strong	Sewing a strong
				Selecting a stitch	and secure blanket	running stitch,
			Decorating fabric	style to join fabric,	stitches when	making small,
			using appliqué	working neatly	joining fabric	neat stitches and
				sewing small neat		following the edge
			Completing design	stitches	Using applique to	
			ideas with stuffing		attach pieces of	Tying strong knots
			and sewing the	Incorporating	fabric decoration	, , ,
			edges	fastening to a		Decorating
				design		a waistcoat -
						attaching objects
						using thread and
						adding a secure
						fastening
Key Skills	Evaluating a	Exploring the	Evaluating own	Evaluating	Adapting and	Improving a design
•		r . r	and an all the control		• •	
	windmill according	features of	work and the work	structures made by	improving own	plan based on peer
F l ti	to the design	structures	of others based on	the class	bridge structure by	evaluation
Evaluation	to the design criteria, testing		of others based on the aesthetic of	the class	bridge structure by identifying points	evaluation
Evaluation	to the design		of others based on		bridge structure by identifying points of weakness and	
Evaluation Structures	to the design criteria, testing whether the structure is strong	structures Comparing the stability of	of others based on the aesthetic of the finished product and in	the class Describing what characteristics of a	bridge structure by identifying points	evaluation Testing and adapting a design
	to the design criteria, testing whether the structure is strong and stable and	structures Comparing	of others based on the aesthetic of the finished product and in comparison to the	the class Describing what characteristics of a design and	bridge structure by identifying points of weakness and	evaluation Testing and adapting a design to improve it as it
	to the design criteria, testing whether the structure is strong	comparing the stability of different shapes	of others based on the aesthetic of the finished product and in	the class Describing what characteristics of a design and construction made	bridge structure by identifying points of weakness and reinforcing them as necessary	evaluation Testing and adapting a design
	to the design criteria, testing whether the structure is strong and stable and altering it if it isn't	Comparing the stability of different shapes Testing the	of others based on the aesthetic of the finished product and in comparison to the original design	the class Describing what characteristics of a design and construction made it the most	bridge structure by identifying points of weakness and reinforcing them as necessary Suggesting points	evaluation Testing and adapting a design to improve it as it is developed
	to the design criteria, testing whether the structure is strong and stable and altering it if it isn't Suggest points for	comparing the stability of different shapes	of others based on the aesthetic of the finished product and in comparison to the original design Suggesting points	the class Describing what characteristics of a design and construction made	bridge structure by identifying points of weakness and reinforcing them as necessary Suggesting points for improvements	evaluation Testing and adapting a design to improve it as it is developed Identifying what
	to the design criteria, testing whether the structure is strong and stable and altering it if it isn't	Comparing the stability of different shapes Testing the	of others based on the aesthetic of the finished product and in comparison to the original design Suggesting points for modification of	the class Describing what characteristics of a design and construction made it the most effective	bridge structure by identifying points of weakness and reinforcing them as necessary Suggesting points for improvements for own bridges	evaluation Testing and adapting a design to improve it as it is developed Identifying what makes a successful
	to the design criteria, testing whether the structure is strong and stable and altering it if it isn't Suggest points for	comparing the stability of different shapes Testing the strength of own structures	of others based on the aesthetic of the finished product and in comparison to the original design Suggesting points for modification of the individual	the class Describing what characteristics of a design and construction made it the most effective Considering	bridge structure by identifying points of weakness and reinforcing them as necessary Suggesting points for improvements for own bridges and those	evaluation Testing and adapting a design to improve it as it is developed Identifying what
	to the design criteria, testing whether the structure is strong and stable and altering it if it isn't Suggest points for	comparing the stability of different shapes Testing the strength of own structures Identifying the	of others based on the aesthetic of the finished product and in comparison to the original design Suggesting points for modification of	the class Describing what characteristics of a design and construction made it the most effective Considering effective and	bridge structure by identifying points of weakness and reinforcing them as necessary Suggesting points for improvements for own bridges	evaluation Testing and adapting a design to improve it as it is developed Identifying what makes a successful
	to the design criteria, testing whether the structure is strong and stable and altering it if it isn't Suggest points for	comparing the stability of different shapes Testing the strength of own structures Identifying the weakest part of a	of others based on the aesthetic of the finished product and in comparison to the original design Suggesting points for modification of the individual	the class Describing what characteristics of a design and construction made it the most effective Considering	bridge structure by identifying points of weakness and reinforcing them as necessary Suggesting points for improvements for own bridges and those	evaluation Testing and adapting a design to improve it as it is developed Identifying what makes a successful
	to the design criteria, testing whether the structure is strong and stable and altering it if it isn't Suggest points for	comparing the stability of different shapes Testing the strength of own structures Identifying the	of others based on the aesthetic of the finished product and in comparison to the original design Suggesting points for modification of the individual	the class Describing what characteristics of a design and construction made it the most effective Considering effective and	bridge structure by identifying points of weakness and reinforcing them as necessary Suggesting points for improvements for own bridges and those	evaluation Testing and adapting a design to improve it as it is developed Identifying what makes a successful



Vov. Chille	Tasting a	Evaluating the strength, stiffness and stability of own structure describing the	Establishing and	Evaluating a	Identifying	Evaluating a
Key Skills	evaluatin	g taste, texture and	using design	recipe,	the nutritional	recipe,
Evaluation	different combina		criteria to help test and review dishes	considering: taste, smell, texture and appearance	differences between different products and	considering: taste, smell, texture and origin of the food
Food	Describir appearar and taste	nce, smell combinations and	Describing the benefits of seasonal fruits and	Describing the impact of the	recipes Identifying and	group Taste testing and
		·	vegetables and the	budget on the	describing healthy	scoring final
	Suggestir informat		impact on the environment	selection of ingredients	benefits of food groups	products
	included				0 - 1	Suggesting and
	packagin	g on a label	Suggesting points for improvement	Evaluating and comparing a range		writing up points of improvements
		Evaluating which grip was most	when making a seasonal recipe	of products		in productions
		effective		Suggesting modifications		Evaluating health and safety in production to
						minimise cross contamination
Key Skills	Testing a product,	seeing designs against	Using the views of others to improve	Evaluating the speed of a final	Evaluating the work of others and	Evaluating the work of others and
Evaluation	whether as planne	ed and if	designs	product based on: the affect of	receiving feedback on own work	receiving feedback on own work
Mechanisms	not, expl why and can be fix	how it feedback to	Testing and modifying the outcome,	shape on speed and the accuracy of workmanship	Suggesting points for improvement	Applying points of improvements



		Reviewing the success of a product by testing it with its intended audience Testing mechanisms, identifying what stops wheels from turning, knowing that a wheel needs an axle in order to	design Evaluating different designs Testing and adapting a design	suggesting improvements	on performance		Describing changes they would make/ do if they were to do the project again
Key Skills Evaluation Electrical Systems	N/A	move N/A	N/A	Learning to give constructive criticism on own work and the work of others Testing the success of a product against the original design criteria and justifying opinions	Evaluating electrical products Testing and evaluating the success of a final product and taking inspiration from the work of peers	Evaluating a completed product against the original design sheet and looking at modifications that could be made to improve the reliability or aesthetics of it or to incorporate another type of electronic device, eg: buzzer	Testing own and others finished games, identifying what went well and making suggestions for improvement
Key Skills		Reflecting on a finished product, explaining likes	Troubleshooting scenarios posed by teacher	Evaluating an end product and thinking of other	Testing and evaluating an end product against	Testing and evaluating an end product and giving	Evaluating work continually as it is created



Evaluation	and dislikes		ways in which to	the original design	point for further	
Liaidation		Evaluating the	create similar	criteria	improvements	
		quality of the	items			
Textiles		stitching on others'		Deciding how		
		work		many of the		
				criteria should be		
		Discussing as a		met for the		
		class, the success		product		
		of their stitching		to be considered		
		against the success		successful		
		criteria				
				Suggesting		
		Identifying aspects		modifications for		
		of their peers'		improvement		
		work that they				
		particularly like				
		and why				
Key	Food	Food	Food	Food	Food	Food
Vocabulary	Blender, carton,	Alternative, diet,	Climate, dry,	Adapt, budget,	Cross-	Accompaniment,
Vocabulary	fruit, healthy,	balanced diet,	exported,	equipment,	contamination,	adjective, caption,
	ingredients, peel,	evaluation,	imported,	evaluation,	diet, ethical issues,	collaboration,
	recipe, slice,	expensive, healthy,	Mediterranean	flavour,	farm, healthy,	cookbook, cross-
	smoothie, stencil,	ingredients,	climate,	ingredients,	ingredients,	contamination,
	template,	nutrients,	nationality,	method, net,	method, nutrients,	equipment, farm,
	vegetable	packaging,	nutrients, polar	packaging,	packaging, recipe,	flavour,
		refrigerator, sugar,	climate, recipe,	prototype,	research,	illustration,
	Mechanisms	substitute	seasonal food,	quantity, recipe,	substitute,	imperative verb,
	Assemble, design,		seasons,	target audience,	supermarket,	ingredients,
	evaluation,	Mechanisms	temperate climate,	unit of	vegan, vegetarian,	method,
	mechanism,	Evaluation, input,	tropical climate	measurement,	welfare	nationality,
	model, slider,	lever, linear		utilities		preparation,



10	ever, stencil,	motion, linkage,	Structures		Mechanical	processed, reared,
	arget audience,	mechanical,	2D shapes, 3D	Structures	systems	recipe, research,
	emplate, test	mechanism,	shapes, design	Aesthetic,	Aesthetic,	storyboard, target
		motion, oscillating	criteria, evaluate,	cladding, design	computer-aided	audience, top-tips,
S	Structure	motion, output,	façade, feature,	criteria,	designs (CAD),	unit of
_	Client, design,	pivot,	net, recyclable,	evaluation, frame	caption, design,	measurement
	evaluation, net,	reciprocating,	scoring, stable,	structure, function,	design brief,	
	stable, strong, test,	motion, rotary	strong, structure,	inspiration,	design criteria,	Mechanical
	weak	motion, survey,	tab, weak	pavilion, reinforce,	exploded-diagram,	systems
		waterproof, stable,	,	stable, structure,	function, input,	Accurate,
Т	Геxtiles	strong, weak	Textiles	target audience,	linkage,	assembly-diagram,
	Decorate, design,	O ,	Accurate,	texture, theme	mechanism,	automata, axle,
	_	Structure	applique, cross-	,	motion, output,	bench hook, cam,
	staple, stencil,	Function, man-	stitch, cushion,	Textiles	pivot, prototype,	clamp,
t	emplate	made, mould,	decorate, detail,	Aesthetic,	slider, structure,	component,
		natural, stable,	fabric, patch,	assemble, design	template	cutting list,
N	Mechanisms	stiff, strong,	running-stitch,	criteria,		diagram, dowel,
A	Axle, axle holder,	structure, test,	seam, stencil,	evaluation, fabric,	Textiles	drill bits, exploded
c	chassis, design,	weak	stuffing, target	fastening, mock-	Accurate,	diagram, finish,
e	evaluation fix,		audience,	up, net, running-	annotate,	follower, frame,
n	mechanic, model,	Textiles	template	stitch, stencil,	appendage,	function, hand
t	est, wheel	Accurate, fabric,		target audience,	blanket-stitch,	drill, jelutong,
		knot, pouch,	Electrical systems	template	design criteria,	linkage, mark out,
		running-stitch,	Attract,		detail, evaluation,	measure,
		sew, shape, stencil,	component,	Electrical systems	fabric, sew, shape,	mechanism,
		template, thimble	constructive-	Battery, bulb,	template	model, research,
			criticism, design	buzzer, cell,		right-angle, set
			criteria,	component,	Electrical systems	square, tenon saw
			electrostatic,	conductor, copper,	Battery, buzzer,	
			evaluation,	design criteria,	circuit,	Textiles
			feedback, motion,	electrical item,	component,	Accurate, adapt,
			repel, target	electricity,	conductor, copper,	annotate, design,



		audience, test	electronic item,	design, design	design criteria,
		addictice, test	function, insulator,	criteria, function,	detail, fabric,
		Mechanical	series circuit,	graphite,	fastening, knot,
		systems	switch, test, torch,	innovative,	properties,
		Exploded-diagram,	wire	insulator, LED,	running-stitch,
		function, input,	Wile	modify, parallel	seam, sew, shape,
		lever, linkage,	Mechanical	circuit, series	target audience,
		mechanism,	systems	circuit, switch,	template, thread,
		motion, net,	Aesthetic, air	target audience,	unique
		output, pivot,	resistance, chassis,	test, wire	amque
		pneumatic system,	design, design	1000, 11110	Electrical systems
		thumbnail sketch	criteria, function,	Structures	Assemble, battery,
			graphics, kinetic	Abutment,	battery pack, bulb,
			energy,	accurate, arched,	bulb holder,
			mechanism, net,	beam, bridge,	buzzer, circuit,
			structure	compression,	circuit symbol,
			00.0000.0	coping saw,	component,
				evaluation, file,	conductor, copper,
				forces, mark out,	design, design
				measure, predict,	criteria,
				reinforce,	evaluation,
				research, right-	function, insulator,
				angle, sandpaper,	LED, magnetic
				set square, shape,	field, net,
				strong, structure,	perspective
				tenon saw,	drawing, plan,
				tension, test, weak	pliers, prototype,
					series circuit, side
					view, steady hand,
					switch,
					symmetrical,
					target audience,



			test, top view, wire
			cutters
			Structures
			Adapt, apparatus,
			bench hook,
			cladding, coping
			saw, design,
			dowel, evaluation,
			feedback, idea,
			jelutong,
			landscape, mark
			out, measure,
			modify, natural
			materials, plan
			view, playground,
			prototype,
			reinforce sketch,
			strong, structure,
			tenon saw,
			texture, user, vice,
			weak