



Design and Technology

Skills and Knowledge Progression 2025-26

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Struc	Making stable structures from card, tape and glue Following instructions to cut and assemble the supporting structure of a windmill Making functioning turbines and axles which are assembled into a main supporting structure Begin to use scissors to cut straight and curved edges and hole pinches to punch holes. Describing the purpose of structures, including windmills Learning how to turn 2D nets into 3D structures Learning that the shape of materials can be changed to improve the strength and stiffness of structures Understanding that cylinders are a strong type of structure that are often used for windmills and lighthouses Understanding that axles are used in structures and mechanisms to make parts turn in a circle	Generating and communicating ideas using sketching and modelling Making a structure according to design criteria Creating joints and structures from paper/card and tape Exploring the features of structures Comparing the stability of different shapes and structures Identifying natural and man-made structures Understanding that the shape of a structure affects its strength Knowing that materials can be manipulated to improve strength and stiffness Building a strong and stiff structure by folding paper	Designing a castle with key features to appeal to a specific person/ purpose Constructing a range of 3D geometric shapes using nets Identifying suitable materials to be selected and used for a castle, considering weight, compression, tension Extending the knowledge of wide and flat based objects are more stable Understanding the terminology of strut, tie, span, beam Understanding the difference between frame and shell structure	Designing a stable pavilion structure that is aesthetically pleasing and selecting materials to create a desired effect Building frame structures designed to support weight Creating a range of different shaped frame structures Selecting appropriate materials to build a strong structure and for the cladding Building on prior knowledge of net structures and broadening knowledge of frame structures Learning that architects consider light, shadow and patterns when designing Implementing frame and shell structure knowledge	Designing a stable structure that is able to support weight Creating frame structure with focus on triangulation Making a range of different shaped beam bridges Using triangles to create truss bridges that span a given distance and supports a load Independently measuring and marking wood accurately Adapting and improving own bridge structure by identifying points of weakness and reinforcing them as necessary Exploring how to create a strong beam Identifying arch and beam bridges and understanding the terms: compression and tension Finding different ways to reinforce structures	Designing a playground featuring a variety of different structures, giving careful consideration to how the structures will be used, considering effective and ineffective designs Measuring, marking and cutting wood to create a range of structures Using a range of materials to reinforce and add decoration to structures Knowing that structures can be strengthened by manipulating materials and shapes Identifying the shell structure in everyday life (cars, aeroplanes, tins, cans) Understanding man made and natural structures
Vocab	Design, evaluation, net, stable, strong, test, weak, windmill	Function, man-made, mould, natural, stable, stiff, strong, structure, test, weak.	2D shapes, 3D shapes, design criteria, evaluate, façade, feature, net, recyclable, scoring, stable, strong, structure, tab, weak	Aesthetic, cladding, design criteria, evaluation, frame structure, function, inspiration, pavilion, reinforce, stable, structure, target audience, target customer, texture, theme.	Abutment, accurate, arched bridge, beam bridge, compression, coping saw evaluation, file, forces, mark out, measure, predict, reinforce, research, right-angle, shape, suspension, bridge, tenon saw, tension, test, truss bridge, weak.	Adapt, apparatus, bench hook, cladding, coping saw, design, dowel, evaluation, feedback, idea, jelutong, landscape, mark out, measure, modify, natural, prototype, plan, sketch, texture, user, vice, weak.

B 4	Explaining how to adapt mechanisms,	Creating a class design criteria for a	Designing a toy which uses a pneumatic	Designing a shape that reduces air	Designing a popup book which uses a	Experimenting with a range of cams.
Mec	using bridges or guides to control the	moving monster	system	resistance	mixture of structures and mechanisms	Courts a decimal for an extensive to the board are a being
	movement	Designing a moving monster for a	Developing design criteria from a design	Drawing a net to create a structure	Naming each mechanism, input and	Create a design for an automata toy based on a choice of cam to create a desired movement
hanis	Designing a moving story book for a	specific audience in accordance with a	brief	from	output accurately	or carried create a desired movement
Hallis	given audience	design criteria				Understanding how linkages change the direction of a
			Generating ideas using thumbnail	Choosing shapes that increase or	Storyboarding ideas for a book	force
ms	Designing a vehicle that includes	Selecting a suitable linkage system to	sketches and exploded diagrams	decrease speed as a result of air		
1113	wheels, axles and axle holders, which	produce the desired motions		resistance	Following a design brief to make a pop	Making things move at the same time
	will allow the wheels to move		Learning that different types of		up book, neatly and with focus on	Measuring, marking and checking the accuracy of the
		Selecting appropriate materials based	drawings are used in design to explain	Personalising a design	accuracy	jelutong and dowel pieces required
	Creating labelled drawings	on their properties	ideas clearly	Measuring, marking, cutting and	Making mechanisms and/ or structures	Measuring marking and sutting components assurately
	Following a design to create moving	Making linkages using card for levers	Building secure housing for a pneumatic	assembling with increasing accuracy	using sliders, pivots and folds to produce	Measuring, marking and cutting components accurately using a ruler and scissors
	models that use levers and sliders	and split pins for pivots	system	assembling with increasing accuracy	movement	using a ruler and scissors
	Inducis that use levels and shaers	and spine pins for pivots	System	Making a model based on a chosen	ove.nene	Assembling components accurately to make a stable
	Adapting mechanisms	Experimenting with linkages adjusting	Using syringes and balloons to create	design	Using layers and spacers to hide the	frame
		the widths, lengths and thicknesses of	different types of pneumatic systems to		workings of mechanical parts for an	
	Learning that levers and sliders are	card used	make a functional and appealing	Learning that products change and	aesthetically pleasing result	Understanding that for the frame to function effectively
	mechanisms and can make things move		pneumatic toy	evolve over time		the components must be cut accurately and the joints
		Cutting and assembling components			Knowing that an input is the motion	of the frame secured at right angles
	Identifying whether a mechanism • is a lever or slider and determining what	neatly	Selecting materials due to their	Learning that all moving things have	used to start a mechanism	Colontino annuanciata matariala basad an the matariala
	movement the mechanism will make	Selecting materials according to their	functional and aesthetic characteristics	kinetic energy	Knowing that output is the motion that	Selecting appropriate materials based on the materials being joined and the speed at which the glue needs to
	movement the mechanism win make	characteristics	Manipulating materials to create	Understanding that kinetic energy is the	happens as a result of starting the input	dry/set
	Learning that for a wheel to move it	Characteristics	different effects by cutting, creasing,	energy that something (object person)	happens as a result of starting the input	ury/set
	must be attached to an axle	Learning about mechanisms, input and	folding, weaving	has by being in motion	Knowing that mechanisms control	
		output, lever and pivots.	-	, ,	movement	Using a bench hook to saw safely and effectively
			Understanding how pneumatic systems			
		Learning how axels help wheels to move	work		Describing mechanisms that can be used	Exploring cams, learning that different shaped cams
		a vehicle	Lancette de la constant de la consta		to change one kind of motion into	produce different follower movements
			Learning that mechanisms are a system of parts that work together to create		another	Exploring types of motions and direction of a motion
			motion			Exploring types of motions and direction of a motion
			ct.o			
			Understanding pneumatic systems			
\ / I	Assemble, design, fabric, glue, model,	Evaluation, input, lever, linear motion,	Exploded-diagram, function, input,	Aesthetic, air resistance, chassis,	Aesthetic, computer-aided design,	Accurate, assembly-diagram, axle, bench, clamp,
Vocab	hand puppet, safety pin, stencil,	linkage, mechanism, motion, oscillating	lever, linkage, mechanism, motion, net,	design, design criteria, function,	caption, design, design brief, design-	component, cutting list, diagram, dowel, drill bits,
10000	template, axle, axle holder, chassis,	motion, output, pivot, reciprocating,	output, pivot, pneumatic system,	graphics, kinetic energy, mechanism,	criteria, exploded-diagram, function,	exploded-diagram, finish, frame, function, hand drill,
	evaluate, fix, model, wheel, test,	motion, rotary motion, decorate, wheel,	thumbnail, sketch.	net, structure.	input, linkage, mechanism, motion,	jelutong, linkage, mark out, measure, mechanism,
		waterproof, strong, weak.			output, pivot, prototype, slider, structure, template.	model, research, right-angle
					Structure, template.	
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Elect	N/A	N/A	Designing a game that works using static electricity, including the instructions for playing the game	Designing a torch, giving consideration to the target audience and creating both design and success criteria	Designing an electronic greetings card with a simple electrical control circuit	Designing a steady hand game - identifying and naming the components
rical			Identifying a design criteria and a target audience	focusing on features of individual design ideas	Creating a labelled design showing positive and negative parts in relation to the LED and the battery	required

		Making an electrostatic game, referring	Making a torch with a working electrical	Making a working circuit	Drawing a design from
syste		to the design criteria	circuit and switch		three different
3,300				Creating an electronics greeting card,	perspectives
		Using a wider range of materials and	Using appropriate equipment to cut	referring to a design criteria	
ms		equipment safely	and attach materials		Generating ideas through
1110		Hele and a december to a constant and a constant	Assembly a street second as to the	Mapping out where different	sketching and discussion
		Using electrostatic energy to move	Assembling a torch according to the	components of the circuit will go	Mandallian Islam Abasanda
		objects in isolation as well as in part of	design and success criteria	Languiga tha line, announced to	Modelling ideas through
		a system	Learning how electrical items work	Learning the key components used to create a functioning circuit	prototypes Making electromagnetic
			Learning now electrical items work	create a functioning circuit	motors and tweaking the
		Understanding what static electricity is	Identifying electrical products	Learning that graphite is a conductor	motor to improve its
		and how it moves objects through		and can be used as part of a circuit	function
		attraction or repulsion	Learning what electrical conductors and	·	
		·	insulators are	Learning the difference between series	Constructing a stable base
		Generating static electricity		and parallel circuits	for an electromagnetic
		independently • Using static electricity	Understanding that a battery contains		game
		to make objects move in a desired way	stored electricity and can be used to	Understanding that breaks in a circuit	
			power products	will stop it from working	Accurately cutting, folding
					and assembling a net
			Understanding how a torch works		December the base of the
			Articulating the positives and paretimes		Decorating the base of the
			Articulating the positives and negatives about different torches		game to a high quality finish
			about different torches		IIIISII
					Making and testing a
					circuit
					Incorporating a circuit into
					a base
					Understanding how
					electromagnetic motors
					work
					Languing that hattarian
					Learning that batteries contain acid, which can be
					dangerous if they leak
					dangerous ii tiley leak
					Learning that when
					electricity enters a
					magnetic field it can make
					a motor
\ / I		Attract, component, constructive-	Battery, buzzer, cell, component,	Battery, buzzer, circuit, component,	Assemble, battery pack,
Vocab		criticism, design criteria, electrostatic,	conductor, copper, design-criteria,	conductor, copper, design, function,	bulb, bulb holder, buzzer,
		evaluation, feedback, motion, repel,	electrical item, electricity, electronic,	graphite, invocative, insulator, LED,	circuit, circuit symbol,
		target audience, test.	function, insulator, series circuit,	modify, parallel, circuit, series circuit,	component, conductor,
			switch, test, torch, wire.	switch, target audience, test, wire.	copper, design, evaluation,
					function, insulator, LED,
					magnetic field, net,
					perspective drawing, plan,
					pliers, prototype, series circuit, side view,
					symmetrical, wire cutters.
	1	1	1	l .	symmetrical, wire cutters.

	Chopping fruit and vegetables safely.	Designing a healthy wrap based on a	Creating a healthy and nutritious recipe	Designing a biscuit within a given	Adapting a traditional recipe,	Writing a recipe, explaining the key steps, method and
Cook	Chopping it dit and vegetables safety.	food combination which work well	for a savoury tart using seasonal	budget, drawing upon previous taste	understanding that the nutritional value	ingredients
COOK	Identify food as a fruit or veg,	together	ingredients, considering the taste,	testing	of a recipe alters if you remove,	
	,	1.0.1	texture, smell and appearance of the		substitute or add additional ingredients	Including facts and drawings from research undertaken
inσ	Learning how and where fruit and veg	Slicing food safely using the bridge or	dish	Following a baking recipe		
ıng	grow.	claw grip			Writing an amended method for a recipe	Following a recipe, including using the correct
	0 1	3 7	Knowing how to prepare themselves	Cooking safely, following basic hygiene	to incorporate the relevant changes to	quantities of each ingredient
and	Tasting and evaluating different food	Constructing a wrap that meets a design	and a work space to cook safely in,	rules	ingredients	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
and	combinations	brief	learning the basic rules to avoid food			Adapting a recipe based on research
			contamination	Adapting a recipe	Cutting and preparing vegetables safely	
nutri	Describing appearance, smell and taste	Describing the taste, texture and smell		Describing the impact of the budget on		Working to a given timescale
Hutti		of fruit and vegetables	Following the instructions within a	the selection of ingredients	Using equipment safely, including	
	Suggesting information to be included		recipe		knives, hot pans and hobs	Working safely and hygienically with independence
tion	on packaging	Taste testing food combinations and		Understanding the impact of the cost		
tion		final products	Establishing and using design criteria to	and importance of budgeting while	Knowing how to avoid	Evaluating a recipe, considering: taste, smell, texture
	Understanding the difference between		help test and review dishes	planning ingredients for biscuits	crosscontamination	and origin of the food group
	fruits and vegetables	Describing the information that should				
		be included on a label	Describing the benefits of seasonal	Understanding the environmental	Following a step by step method	Taste testing and scoring final products
	Describing and grouping fruits by		fruits and vegetables and the impact on	impact on future product and cost of	carefully to make a recipe	
	texture and taste	Understanding what makes a balanced	the environment	production		Suggesting and writing up points of improvements in
		diet			Identifying the nutritional differences	productions
			Learning that climate affects food		between different products and recipes	
		Knowing where to find the nutritional	growth			Recording the relevant ingredients and equipment
		information on packaging			Identifying and describing healthy	needed for a recipe
			Working with cooking equipment safely		benefits of food groups	
		Knowing the five food groups	and hygienically		Understanding the sector of a sector of sectors	Understanding the combinations of food that will
			Learning that imported foods travel		Understanding where food comes from - learning that beef is from cattle and how	complement one another
			from far away and this can negatively		beef is reared and processed	Understanding where food comes from, describing the
			impact the environment		beer is reared and processed	process of 'Farm to Fork' for a given ingredient
			impact the environment		Understanding what constitutes a	process or rainito fork for a given ingredient
			Learning that vegetables and fruit grow		balanced diet	
			in certain seasons		Learning to adapt a recipe to make it	
			in certain seasons		healthier	
			Learning that each fruit and vegetable			
			gives us nutritional benefits		Comparing two adapted recipes using a	
					nutritional calculator and then	
			Learning to use, store and clean a knife		identifying the healthier option	
			safely			
\	Blender, carton fruit, healthy,	Alternative, balanced, expensive,	Climate, dry climate, exported,	Adapt, budget, equipment, flavour,	Beef, cross-contamination, diet, ethical	Accompaniment, collaboration, cookbook, cross-
Vocab	ingredients, peel, peeler, recipe, slice,	healthy, ingredients, packaging,	imported, Mediterranean climate,	ingredients, method, net, packaging,	issues, farm, healthy, ingredients,	contamination, equipment, farm, flavour, is lustration,
	smoothie, stencil, template, vegetable.	refrigerator, sugar, substitute	nationally, nutrients, polar climate,	porotype, quantity, recipe, target	method, nutrients, packaging, reared,	ingredients, method, nationally, preparation,
			recipe, seasonal food, seasons,	audience, unit of measurement,	recipe, research, substitute,	processed, reared, recipe, research, target-audience,
			temperate climate, tropical climate.	utilities.	supermarkets vegan, vegetarian,	unit of measurement.
					welfare.	

Tov+il	Using a template to create a design for	Designing a pouch Selecting and cutting fabrics for sewing	Designing and making a template from an existing cushion and applying	Writing design criteria for a product, articulating decisions made	Designing a stuffed toy considering the main component shapes required and	Designing a waistcoat in accordance to specification linked to set of design criteria to fit a specific theme
Textil	a puppet Cutting fabric neatly with scissors	Selecting and cutting labrics for sewing	individual design criteria	articulating decisions made	creating an appropriate template	linked to set of design criteria to fit a specific theme
	Using joining methods to decorate a	Decorating a pouch using fabric glue or running stitch	Following design criteria to create a	Designing a personalised Book sleeve	Considering proportions of individual	Annotating design
es	puppet	Troubleshooting scenarios posed by	cushion	Making and testing a paper template	components	Using template pinning panels onto fabric
		teacher		with accuracy and in keeping with the	Creating a 3D stuffed toy from a 2D	
	Sequencing steps for construction	Food and a substitute of the extraction of	Selecting and cutting fabrics with ease	design criteria	design	Marking and cutting fabric accurately, in accordance
	Learning different ways in which to join	Evaluating the quality of the stitching on others' work	using fabric scissors	Measuring, marking and cutting fabric	Measuring, marking and cutting fabric	with a design
	fabrics together: pinning, stapling,	others werk	Sewing cross stitch to join fabric	using a paper template	accurately and independently	Sewing a strong running stitch, making small, neat
	gluing	Discussing as a class, the success of				stitches and following the edge
		their stitching against the success criteria	Decorating fabric using appliqué	Selecting a stitch style to join fabric, working neatly sewing small neat	Creating strong and secure blanket stitches when joining fabric	Tying strong knots
		citeria	Completing design ideas with stuffing	stitches	stitches when joining labile	Tyring strong knots
		Identifying aspects of their peers' work	and sewing the edges		Using applique to attach pieces of fabric	Decorating a waistcoat - attaching objects using thread
		that they particularly like and why	Threading needles with greater	Incorporating fastening to a design	decoration	and adding a secure fastening
		Joining items using fabric glue or	independence	Deciding how many of the criteria	Learning to sew blanket stitch to join	Learning different decorative stitches
		stitching		should be met for the product to be	fabric	
		Identifying benefits of these techniques	Tying knots with greater independence	considered successful	Anglijas blankst stitak os the osess	Application and outcome of the individual technique
		Threading a needle	Sewing cross stitch and appliqué	Threading needles with greater	Applying blanket stitch so the space between the stitches are even and	Sewing accurately with even regularity of stiches
		3	g a second a sepp que	independence	regular	
		Sewing running stitch, with evenly	Understanding the need to count the			
		spaced, neat, even stitches to join fabric	thread on a piece of even weave fabric in each direction to create uniform size	Tying knots with greater independence	Threading needles independently	
		Neatly pinning and cutting fabric using a template	and appearance	Sewing cross stitch and appliqué		
			Understanding that fabrics can be	Understanding the need to count the		
			layered for affect	thread on a piece of even weave fabric in each direction to create uniform size		
				and appearance		
				Understanding that fabrics can be		
				layered for affect		
Massh	Decorate, design fabric, glue, model,	Accurate, fabric, knot, punch, running	Accurate, applique, cross-stitch,	Aesthetic, assemble, book sleeve,	Accurate, annotate, appendage, blanket	Adapt, annotate, design, design criteria, details, fabric,
Vocab	hand puppet, safety pin, staple, stencil, template,	stitch, sew, shape, stencil, thimble	cushion, decorate, detail, fabric, patch, running stitch, seam, stencil, stuffing,	design criteria, fabric, fastening, mock- up, net, running stitch, stencil, target	stitch, design criteria, design evaluation, fabric, sew, shape, stuffed, stuffing,	fastening, knot, properties, running stitch, seam, sew, shape, target, audience, target customer, template,
			target audience, template.	audience, target customer template.	template.	thread, unique, waistcoat, waterproof.

design criteria Suggest points for improvements. Test a finished product. Reflecting on a finished product, explaining likes and dislikes Testing and adapting a design Testing and evaluating an end product and thinking of other ways in which to create similar items Product, evaluate, reflect, improvement Evaluate, product, test, adapt, changes, Product, evaluate, reflect, improvement Evaluate, product, test, adapt, changes, Evaluate, product, test, adapt, changes, Evaluate, product, improvements, test, Evaluate, constructive criticism, Residenting and evaluating the success of a product against the original design of final products Testing and evaluating the success of a final product and taking inspiration from the work of others Suggesting points of improvements Testing and evaluating the success of a final product and taking inspiration from the work of others Describing chaptes they would make / do if they were to do the project again the original design opinions Evaluating health and sa product and taking man opinions Evaluating health and sa product and taking man end pr				1			_
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