Progression of Skills in Design Technology 2024-2025

Design Technology Overview



Every child a leader – Every chance taken – Every day counts

The national curriculum for design technology aims to ensure that all pupils:

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils 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. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-guality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation. The national curriculum for design and technology aims to ensure that all pupils:

develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world build and apply a repertoire of knowledge, understanding and skills in order to design and make high-guality prototypes and products for a wide range of users critique, evaluate and test their ideas and products and the work of others understand and apply the principles of nutrition and learn how to cook.

processed.

National Cu	rriculum Knowledge
Pu	bils should
KS1	KS2
Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding	Through a variety of creative and practical activities, pupils should b
and skills needed to engage in an iterative process of designing and making. They should work in a range	needed to engage in an iterative process of designing and making.
of relevant contexts [for example, the home and school, gardens and playgrounds, the local community,	[for example, the home, school, leisure, culture, enterprise, industry
industry and the wider environment].	Designing and making: pupils should be taught to:
Designing and making: pupils should be taught to:	 design use research and develop design criteria to inform th
 design purposeful, functional, appealing products for themselves and other users based on design 	products that are fit for purpose, aimed at particular individu
criteria	 generate, develop, model and communicate their ideas through the second s
• generate, develop, model and communicate their ideas through talking, drawing, templates, mock-	sectional and exploded diagrams, prototypes, pattern pieces
ups and, where appropriate, information and communication technology	 select from and use a wider range of tools and equipment to
 select from and use a range of tools and equipment to perform practical tasks [for example, 	shaping, joining and finishing], accurately
cutting, shaping, joining and finishing]	 select from and use a wider range of materials and compone
 select from and use a wide range of materials and components, including construction materials, 	ingredients, according to their functional properties and aest
textiles and ingredients, according to their characteristics	Evaluate
Evaluate	 investigate and analyse a range of existing products
 explore and evaluate a range of existing products 	 evaluate their ideas and products against their own design control
 evaluate their ideas and products against design criteria 	their work
Technical knowledge	 understand how key events and individuals in design and teo
 build structures, exploring how they can be made stronger, stiffer and more stable 	Technical knowledge
 explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. 	 apply their understanding of how to strengthen, stiffen and r
	 understand and use mechanical systems in their products [for
<u>Cooking and nutrition</u> As part of their work with food, pupils should be taught how to cook and apply	linkages]
the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to	 understand and use electrical systems in their products [for electrical systems in the systems in the
one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables	bulbs, buzzers and motors]
pupils to feed themselves and others affordably and well, now and in later life. Pupils should be taught to:	 apply their understanding of computing to program, monitor
 use the basic principles of a healthy and varied diet to prepare dishes 	
 understand where food comes from. 	<u>Cooking and nutrition</u> As part of their work with food, pupils show
	principles of nutrition and healthy eating. Instilling a love of cooking
	expressions of human creativity. Learning how to cook is a crucial lif
	others affordably and well, now and in later life. Pupils should be tak
	 understand and apply the principles of a healthy and varied of
	• prepare and cook a variety of predominantly savoury dishes
	 understand seasonality, and know where and how a variety of

be taught the knowledge, understanding and skills They should work in a range of relevant contexts and the wider environment].

- ne design of innovative, functional, appealing als or groups
- ugh discussion, annotated sketches, cross-
- and computer-aided design
- perform practical tasks [for example, cutting,

ents, including construction materials, textiles and hetic qualities

- riteria and consider the views of others to improve
- chnology have helped shape the world
- reinforce more complex structures or example, gears, pulleys, cams, levers and
- example, series circuits incorporating switches,
- and control their products
- uld be taught how to cook and apply the in pupils will also open a door to one of the great ife skill that enables pupils to feed themselves and aught to:
- diet
- using a range of cooking techniques
- of ingredients are grown, reared, caught and

Ter	m	Autumn 1	Autumn 2	Spring 1		Spr	ring 2		Summer 1	Summer 2
Valı	Je	Resilience	Integrity	Democrac	у	Crea	ativity		Gratitude	Diversity
Year gro Units Co	up/ vered	Reception	Year 1	Year 2	Year 3		Year 4		Year 5	Year 6
Cooking nutrition	and	Make a soup using seasonal vegetables autumn 2 <mark>Geography</mark> – autumn Reception	Make a refreshing smoothie for a day at the beach Summer 1 <mark>Geography</mark> – Sea-sides Yr 1	Design a wrap that incorporates the different food groups/Balanced diet Autumn 1 <mark>Science</mark> – Animals including humans Yr2	Design a sea Summer 2 <mark>Reading</mark> – Al Yr 3	ın a seasonal tart Adapting a bread recipe ner 2 (Greek breads) ing – Alice's adventuresAutumn 2 Geography – bread Yr 4		recipe I <mark>d Yr 4</mark>	What could be healthier Summer 2 <mark>Science</mark> – Animals inclue humans (diet and lifesty Yr 6	 Come dine with me. Design and make a three course ding meal. γle) Summer 2 Writing – persuasive letter Yr 6
Skills	Design	 Designing a soup recipe as a class. Designing soup packaging 	 Designing smoothie carton packaging by-hand or on ICT software. 	 Designing a healthy wrap based on a food combination that work well together. 	• Creating a he nutritious recip tart using seas considering the smell and appe dish.	ealthy and be for a savoury sonal ingredients, e taste, texture, earance of the	 Designing bread w budget, drawing up taste testing judgen 	vithin a given on previous nents.	 Adapting a traditional recunderstanding that the nutritional value of a recipe alters if you remove, substition add additional ingredien Writing an amended mether for a recipe to incorporate relevant changes to ingredien Designing appealing pack to reflect a recipe. 	 ipe, Writing a recipe, explaining the key steps, method and ingredients. ingredients. including facts and drawings from research undertaken. hod the ients. kaging
	Make	Chopping vegetables with support. Chopping plasticine safely.	 Chopping fruit and vegetables safely to make a smoothie. 	 Slicing food safely using the bridge or claw grip. Constructing a wrap that meets a design brief. 	 Knowing how themselves an cook safely in, rules to avoid contamination Following the within a recipe 	v to prepare d a workspace to learning the basic food e instructions	 Following a baking from start to finish, preparation of ingre Cooking safely, fol hygiene rules. Adapting a recipe or change it to meet (e.g. from savoury to 	recipe, including the dients. lowing basic to improve it new criteria o sweet).	 Cutting and preparing evegetables safely. Using equipment safely, including knives, hot pans a hobs. Knowing how to avoid cro contamination. Following a systematic m carefully to make a recipe 	 Following a recipe, including using the correct quantities of each ingredient. and Adapting a recipe based on research. Working to a given timescale. Working safely and ethod hygienically with independence.
	Evaluate	 Tasting the soup and giving opinions. Describing some of the following when tasting food: look, feel, smell and taste. Choosing their favourite packaging design and explaining why. 	 Tasting and evaluating different food combinations. Describing appearance, smell and taste. Suggesting information to be included on packaging. 	 Describing the taste, texture and smell of fruit and vegetables. Taste testing food combinations and final products Describing the information that should be included on a label. Evaluating which grip was most effective. 	 Establishing criteria to help dishes. Describing th seasonal fruits and the impac environment. Suggesting p improvement seasonal tart. 	and using design test and review he benefits of and vegetables t on the points for when making a	 Evaluating a recipe considering taste, sr and appearance. Describing the imp budget on the selecting ingredients. Evaluating and con range of food produtions Suggesting modifier recipe (e.g. This bississ many raisins, and it apart, so next time to less raisins). 	e, mell, texture bact of the tion of mparing a cts. cations to a cuit has too is falling I will use	 Identifying the nutritional differences between differences products and recipes. Identifying and describing healthy benefits of food groups of food grou	 Evaluating a recipe, considering taste, smell, texture and origin of the food group. Taste testing and scoring final pups. Suggesting and writing up points of improvements when scoring others' dishes, and when evaluating their own throughout the planning, preparation and cooking process. Evaluating health and safety in production to minimise cross contamination.
Knowled	ge	 To know that soup is ingredients (usually vegetables and liquid) blended. To know that vegetables are grown. To recognise and name some common vegetables. To know that different vegetables taste different. To know that eating vegetables is good for us. To discuss why different packages might be used for different foods. 	 Understanding the difference between fruits and vegetables. To understand that some foods typically known as vegetables are actually fruits (e.g. cucumber). To know that a blender is a machine which mixes ingredients together into a smooth liquid. To know that a fruit has seeds and a vegetable does not. To know that fruits grow on trees or vines. To know that vegetables can grow either above or below 	 To know that 'diet' means the food and drink that a person or animal usually eats. To understand what makes a balanced diet. To know where to find the nutritional information on packaging. To know that the five main food groups are: Carbohydrates, fruits and vegetables, protein, dairy and foods high in fat and sugar. To understand that I should eat a range of different foods from each food group, and 	 To know that vegetables car UK. To know that food growth. To know that fruit grow in control of the control of the	t not all fruits and be grown in the t climate affects t vegetables and ertain seasons. t cooking e known as a t imported food is s been brought ry. t exported food is s been sent to ry.	 To know that the a an ingredient in a reknown as the 'quant To know that it is use oven gloves whet food from an ov To know the follow techniques: sieving, rubbing method, con To understand the of budgeting while p ingredients for break 	amount of cipe is city.' important to en removing en. ving cooking creaming, oling. importance olanning d.	 To know that I can adapt recipe to make it healthier substituting ingredients. To know that I can use a nutritional calculator to see healthy a food option is. To understand that 'cross contamination' means bact and germs have been pass onto ready-to-eat foods an happens when these foods with raw meat or unclean objects. 	 a • To know that 'flavour' is how a food or drink tastes. • To know that many countries have 'national dishes' which are recipes associated with that country. • To know that 'processed food' means food that has been put through multiple changes in a d it factory. • To understand that it is important to wash fruit and vegetables before eating to remove any dirt and insecticides. • To understand what happens

			ground. • To know that vegetables can come from different parts of the plant (e.g. roots: potatoes, leaves: lettuce, fruit: cucumber)	 roughly how much of each food group. To know that nutrients are substances in food that all living things need to make energy, grow and develop. To know that 'ingredients' means the items in a mixture or 	 To understand that imported foods travel from far away and this can negatively impact the environment. To know that each fruit and vegetable gives us nutritional benefits because they contain vitamins, minerals and fibre. 		to a certain food before it appears on the supermarket shelf (Farm to Fork).
				 recipe. To know that I should only have a maximum of five teaspoons of sugar a day to stay healthy. To know that many food and drinks we do not expect to contain sugar do; we call these hidden sugars'. 	 To understand that vitamins, minerals and fibre are important for energy, growth and maintaining health. To know safety rules for using, storing and cleaning a knife safely. To know that similar coloured fruits and vegetables often have similar nutritional benefits. 		
Textiles		Bookmarks spring 1 <mark>Reading</mark>		Make a pouch for an astronaut to take food into space Summer 2 Geography – Explorers Yr2	Make an Egyptian collar Spring 1 <mark>History</mark> – Egyptians Yr3	Make a waistcoat for a character. Summer 1	Stuffed toy for an evacuee Autumn 1 <mark>History</mark> – WWII Yr6
Skills	Design	 Discussing what a good design needs. Designing a simple pattern with paper. Designing a bookmark. Choosing from available materials. 		• Designing a pouch.	 Designing and making a template from an existing collar and applying individual design criteria. 	 Designing a waistcoat in accordance to a specification linked to set of design criteria. Annotating designs, to explain their decisions. 	 Designing a stuffed toy, considering the main component shapes required and creating an appropriate template. Considering the proportions of individual components.
	Make	 Developing fine motor/cutting skills with scissors. Exploring fine motor/ threading and weaving (under, over technique) with a variety of materials. Using a prepared needle and wool to practise threading. 		 Selecting and cutting fabrics for sewing. Decorating a pouch using fabric glue or running stitch. Threading a needle. Sewing running stitch, with evenly spaced, neat, even stitches to join fabric. Neatly pinning and cutting fabric using a template 	 Following design criteria to create an Egyptian collar. Selecting and cutting fabrics with ease using fabric scissors. Threading needles with greater independence. Tying knots with greater independence. Sewing cross stitch to join fabric. Decorating fabric using appliqué. Completing design ideas with embellishing the collars based on design ideas. 	 Using a template when cutting fabric to ensure they achieve the correct shape. Using pins effectively to secure a template to fabric without creases or bulges. Marking and cutting fabric accurately, in accordance with their design. Sewing a strong running stitch, making small, neat stitches and following the edge. Tying strong knots. Decorating a waistcoat, attaching features (such as appliqué) using thread. Finishing the waistcoat with a secure fastening (such as buttons). Learning different decorative stitches. Sewing accurately with evenly spaced, neat stitches. 	 Creating a 3D stuffed toy from a 2D design. Measuring, marking and cutting fabric accurately and independently. Creating strong and secure blanket stitches when joining fabric. Threading needles independently. Using appliqué to attach pieces of fabric decoration. Sewing blanket stitch to join fabric. Applying blanket stitch so the spaces between the stitches are even and regular.
	Evaluate	• Reflecting on a finished product and comparing to their design.		 Troubleshooting scenarios posed by teacher. Evaluating the quality of the stitching on others' work. Discussing as a class, the success of their stitching against the success criteria. Identifying aspects of their peers' work that they particularly like and why. 	 Evaluating an end product and thinking of other ways in which to create similar items. 	• Reflecting on their work continually throughout the design, make and evaluate process.	• Testing and evaluating an end product and giving point for further improvements.

Knowle	dge	 To know that a design is a way of planning our idea before we start. To know that threading is putting one material through an object. 		 To know that sewing is a method of joining fabric. To know that different stitches can be used when sewing. To understand the importance of tying a knot after sewing the final stitch. To know that a thimble can be used to protect my fingers when sewing. 	 To know that applique is a way of mending or decorating a textile by applying smaller pieces of fabric to larger pieces. To know that when two edges of fabric have been joined together it is called a seam. To know that it is important to leave space on the fabric for the seam. To understand that some products are turned inside out after sewing so the stitching is hidden. 	 To undefinition important with the original indication indicatio indic
Structu	res	Recycled Materials Summer 1 and 2	Design a windmill for a character from the story	Build a chair for Goldilocks and the three bears	Design a castle Summer 1	
			Spring 2 Geography – Weather Yr1	Spring 2 Writing – Goldilocks Xr2	<mark>History</mark> – Egyptians Yr3	
Skills	Design	 Making verbal plans and material choices. Developing a junk model. 	 Learning the importance of a clear design criterion. 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 stable pavilion structure that is aesthetically pleasing and selecting materials to create a desired effect. Building frame structures designed to support weight. 	
	Make	 Improving fine motor/scissor skills with a variety of materials. Joining materials in a variety of ways (temporary and permanent). Joining different materials together. Describing their junk model, and how they intend to put it together. 	 Making stable structures from card, tape and glue. Learning how to turn 2D nets into 3D structures. 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. 	 Making a structure according to design criteria. Creating joints and structures from paper/card and tape. Building a strong and stiff structure by folding paper. 	 Creating a range of different shaped frame structures. Making a variety of free standing frame structures of different shapes and sizes. Selecting appropriate materials to build a strong structure and cladding. Reinforcing corners to strengthen a structure. Creating a design in accordance with a plan. Learning to create different textural effects with materials. 	
	Evaluate	 Giving a verbal evaluation of their own and others' junk models with adult support. Checking to see if their mode matches their plan. Considering what they would do differently if they were to do it again. Describing their favourite and least favourite part of their model. 	 Evaluating a windmill according to the design criteria, testing whether the structure is lstrong and stable and altering it if it isn't. Suggest points for improvements. 	 Exploring the features of structures. Comparing the stability of different shapes. Testing the strength of own structures. Identifying the weakest part of a structure. Evaluating the strength, stiffness and stability of own structure 	 Evaluating structures made by the class. Describing what characteristics of a design and construction made it the most effective. Considering effective and ineffective designs 	
Knowle	dge	 To know there are a range to different materials that can be used to make a model and that they are all slightly different. Making simple suggestions to fix their junk model. 	 To understand that the shape of materials can be changed to timprove the strength and stiffness of structures. To understand that cylinders are a strong type of structure (e.g. the main shape used for windmills and lighthouses). To understand that axles are used in structures and 	 To know that shapes and structures with wide, flat bases or legs are the most stable. To understand that the shape of a structure affects its strength. To know that materials can be manipulated to improve strength and stiffness. To know that a structure is 	 To understand what a frame structure is. To know that a 'free-standing' structure is one which can stand on its own. To know that a pavilion is a decorative building or structure for leisure activities. To know that cladding can be applied to structures for 	

Inderstand that it is	 To know that blanket stitch is
tant to design clothing	useful to reinforce the edges of
he client/ target customer	a fabric material or join two
d	nieces of fabric
now that using a template	• To understand that it is easier
thing nattorn) holes to	to finish simpler designs to a
take mark out a design on	to ministri simpler designs to a
ately mark out a design on	nign standard.
	 To know that soft toys are
inderstand the importance	often made by creating
sistently sized stitches.	appendages separately and then
	attaching them to the main
	body.
	 To know that small, neat
	stitches which are pulled taut
	are important to ensure that the
	soft toy is strong and holds the
	soft toy is strong and holds the
	Stuffing Securery.
	Design a victorian
	playground
	Summer 1
	<mark>History</mark> – Yr6
	 Designing a playground
	featuring a variety of different
	structures, giving careful
	consideration to how the
	structures will be used.
	considering effective and
	ineffective designs
	Building a range of play
	 Duilding a range of play apparatus structures drawing
	apparatus structures urawing
	upon new and prior knowledge
	of structures.
	 Measuring, marking and
	cutting wood to create a range
	of structures.
	 Using a range of materials to
	reinforce and add decoration to
	structures.
	Improving a design plan based
	 Improving a design plan based an poor ovaluation
	Ul peel evaluation.
	 resting and adapting a design
	to improve it as it is developed.
	 Identifying what makes a
	successful structure.
	 To know that structures can
	be strengthened by
	manipulating materials and
	shanes
	 To understand what a
	'footprint plan' is
	• To understand that in the real
	world docian con import users
	wonu, design, can impact users
	in positive and negative ways.
	 To know that a prototype is a

Mechani	sms	mechanisms to make parts turn in a circle. • To begin to understand that different structures are used for different purposes. • To know that a structure is something that has been made and put together. • To know that a client is the person I am designing for. • To know that design criteria is a list of points to ensure the product meets the clients needs and wants. • To know that a windmill harnesses the power of wind for a purpose like grinding grain, pumping water or generating electricity. • To know that windmill turbines use wind to turn and make the machines inside work. • To know that a windmill is a structure with sails that are moved by the wind. • To know the three main parts of a windmill are the turbine, axle and structure. Transport Model – Wheels and Axles Autumn 2 History – Toys yr1	something which has been formed or made from parts. • To know that a 'stable' structure is one which is firmly fixed and unlikely to change or move. • To know that a 'strong' structure is one which does not break easily. • To know that a 'stiff' structure or material is one which does not bend easily. • To know that natural structures are those found in nature. r • To know that man-made structures are those made by people.	different effects. • To know that aesthetics are how a product looks. • To know that a product's function means its purpose. • To understand that the target audience means the person or group of people a product is designed for. • To know that architects consider light, shadow and patterns when designing.	Pneumatic toys – Mythical Creature Summer 1 and 2 History – Ancient Greeks Yr4	
Skills	Design	 Designing a vehicle that includes wheels, axles and axle holders, that when combined, will allow the wheels to move. Creating clearly labelled drawings that illustrate movement. 			 Designing a toy that uses a pneumatic system. Developing design criteria from a design brief. Generating ideas using thumbnail sketches and exploded diagrams. Learning that different types of drawings are used in design to explain ideas clearly. 	
	Make	 Adapting mechanisms, when: they do not work as they should. to fit their vehicle design. to improve how they work after testing their vehicle. 			 Creating a pneumatic system to create a desired motion. Building secure housing for a pneumatic system. Using syringes and balloons to create different types of pneumatic systems to make a functional and appealing pneumatic toy. Selecting materials due to their functional and aesthetic characteristics. Manipulating materials to create different effects by cutting, creasing, folding and weaving. 	
	Evaluate	 Testing wheel and axle mechanisms, identifying what stops the wheels from turning, and recognising that a wheel 			 Using the views of others to improve designs. Testing and modifying the outcome, suggesting 	

chean model to test a design
idea
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		needs an axle in order to move.	improvements. • Understanding the purpose of exploded-diagrams through the eyes of a designer and their client.	
Knowled	ge	 To know that wheels need to be round to rotate and move. To understand that for a wheel to move it must be attached to a rotating axle. To know that an axle moves within an axle holder which is fixed to the vehicle or toy. To know that the frame of a vehicle (chassis) needs to be balanced. To know some real-life items that use wheels such as wheelbarrows, hamster wheels and vehicles 	 To understand how pneumatic systems work. To understand that pneumatic systems can be used as part of a mechanism. To know that pneumatic systems operate by drawing in, releasing and compressing air. To understand how sketches, drawings and diagrams can be used to communicate design ideas. To know that exploded-diagrams are used to show how different parts of a product fit together. To know that thumbnail sketches are small drawings to get ideas down on paper quickly. 	
Electric systems	al s		Design a poster with an electrical circuit (Romans) Spring 2 <mark>History</mark> /science – Romans Yr 4	Create a circuit that a pens to doodle a patte Spring 1 <mark>Art</mark> – Patterns/Mark n
Skills	Design		 Carry out research based on a given topic (e.g. The Romans) to develop a range of initial ideas. Generate a final design for the electric poster with consideration to the client's needs and design criteria. Design an electric poster that fits the requirements of a given brief. Plan the positioning of the bulb (circuit component) and its purpose. 	 Identifying factors that be changed on existing p and explaining how these alter the form and function the product. Developing design criter based on findings from investigating existing products. Developing design criter clarifies the target user
	Make		 Create a final design for the electric poster. Mount the poster onto corrugated card to improve its strength and allow it to withstand the weight of the circuit on the rear. Measure and mark materials out using a template or ruler. Fit an electrical component (bulb). Learn ways to give the final product a higher quality finish (e.g. framing to conceal a roughly cut edge). 	 Altering a product's form function by tinkering with configuration. Making a functional ser circuit, incorporating a m Constructing a product consideration for the des criteria. Breaking down the construction process into so that others can make the product.
	Evaluate		Learning to give and accept constructive criticism on own work and the work of others.	 Carry out a product and look at the purpose of a along with its strengths a

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ies,		
ow +		
to		
;)	Create a circuit that allows pens to doodle a pattern	
6	Spring 1 Art – Patterns / Mark making	
3	Art – Patterns/ Mark Making	
n a s)	 Identifying factors that could be changed on existing products 	
,	and explaining how these would	
the	the product.	
	 Developing design criteria based on findings from 	
. +	investigating existing	
iat en	 Developing design criteria that 	
	clarifies the target user	
its		
e	 Altering a product's form and 	
	tunction by tinkering with its configuration.	
ts	Making a functional series	
	 Constructing a product with 	
ls	consideration for the design criteria.	
•	Breaking down the	
	so that others can make	
l h	the product.	
t	 Carry out a product analysis to 	

	 Testing the success of initial weaknesses.
	ideas against the design criteria • Determining which parts of a
	and justifying opinions product affect its function and
	Revisiting the requirements of which parts affect its form
	the client to review developing • Analysing whether changes in
	design ideas and check that configuration positively or
	they fulfil their needs
	litey fullificitell fields. Inegalively affect all existing
	product.
	Peer evaluating a set of
	instructions to build a product.
Knowledge	To understand that an To know that series circuits
	electrical system is a group of only have one direction for the
	parts (components) that work electricity to flow.
	together to transport electricity • To know when there is a break
	around a circuit. in a series circuit, all
	To understand common components turn off.
	features of an electric product • To know that an electric motor
	(switch, battery or plug, dials, converts electrical energy into
	buttons etc.).
	• To list examples of common the motor's axle to spin.
	electric products (kettle, remote • To know a motorised product
	control etc.)
	• To understand that an electric function
	• To understand that an electric function.
	product uses an electrical • To know that product analysis
	system to work (function). Is children by strengths and
	• TO Know the name and weaknesses of a product.
	appearance of a build, battery, • To know that configuration
	battery holder and crocodile means how the parts of a
	wire to build simple circuits. product are arranged.
	To understand the importance
	and purpose of information
	design.
	 To understand how material
	choices (such as mounting
	paper to corrugated card) can
	improve a product to serve its
	purpose (remain rigid without
	bending when the electrical
	circuit is attached).
Enrichment	
Opportunities	