

Progression in Design and Technology.

ABC.

	<u>EYFS</u>	YI	<u>Y2</u>	End of KSI	<u>Y3</u>	<u>Y4</u>	<u>Y5</u>	<u>Y6</u>	End of KS2
				Expectations					Expectations
Design. (By: understanding: contexts, users and: purposes).	Say what they have made and who it is for, what they like and dislike about things. Expressing their ideas using full sentences, with modelling and support from their teacher.	contexts, such as i home, school, gare community, indust environment. State what produce making Say whether their themselves or othe Describe what thei Say how their pro Say how they will suitable for their ir	is they are designing and aroducts are for rusers roducts are for ducts will work make their products	Design purposeful, functional, appealing products for themselves and other users based on design criteria. Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate,	such as the home, enterprise, industry environment Describe the purpo Indicate the design that will appeal to Explain how parti products work Gather information of particular indivi	se of their products or features of their products intended users cular parts of their or about needs and wants duals and groups design criteria and use	such as the home, senterprise, industry environment Describe the purpose Indicate the design that will appeal to Explain how partice products work Carry out research, interviews, question resources and use to Identify the needs, values of particular Develop a simple di	se of their products of their products intended users ular parts of their using surveys, unaires and web-based his to inform their plans wants, preferences and individuals and groups esign specification to	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups Generate, develop, model and
Design (By developing, modelling and communicating ideas).	Expressing their ideas using full sentences, with modelling and support from their teacher.	experiences Use knowledge of come up with ide Develop and com and drawing Model ideas by e components and making templates Use information technology, when	municate ideas by talking exploring materials, construction kits and by and mock-ups and communication e appropriate, to develop	information and communication technology.	needs of the user Share and clarff Model their ideal pattern pieces Use annotated sk drawings and ex develop and com Use computer-air	y ideas through discussion is using prototypes and setches, cross-sectional ploded diagrams to municate their ideas ded design to develop and ir ideas that take account of	pieces Use annotated sketch drawings and explodiand communicate the Use computer-aided a communicate their ide Make design decision	netimes innovative ideas, as through discussion ng prototypes and pattern es, cross-sectional ed diagrams to develop ir ideas design to develop and	communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
Make:	Participate in small group, class and one to one discussion offering their own	Follow procedure Plan by suggestir Select from a rar	s for safety and hygiene og what to do next ge of tools and ning their choices		Order the main s Select tools and task.	tages of making equipment suitable for the	Devise step-by-step	ate lists of tools, aterials that they need sp plans as a guide to be read / followed by	Select from and use a wider range of tools and equipment to perform practical tasks for example, cutting,

(Planning what to make).	ideas using recently introduced vocabulary.	•	Select from a range of materials and components according to their characteristics	Select from and use a range of tools and equipment to perform practical tasks (for	•	Explain their choice of tools and equipment in relation to the skills and techniques they will be using. Select materials and components suitable for the task. Explain their choice of materials and	•	Select tools and equipment suitable for the task. Explain their choice of tools and equipment in relation to the skills and techniques they will be using. Select materials and components suitable	shaping, joining and finishing, accurately Select from and use a wider range of materials and
				example, cutting, shaping, joining and finishing] Select from and	•	components according to functional properties and aesthetic qualities. Begin to put together a step-by-step plan which shows the order and also what equipment and tools they need	c	for the task. Explain their choice of materials and components according to functional properties and aesthetic qualities.	components, including construction materials, textiles and ingredients, according to their functional
Make (Working with tools, equipment, materials and components to make quality product).	Fine motor: effectively use a range of small tools, including scissors and paintbrushes. Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design texture, form and function.		Follow procedures for safety and hygiene. Use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components With support measure, mark out, cut and shape materials and components Use tools such as scissors and hole puncher safely. Assemble, join and combine materials and components e.g. glue or masking tape Use simple finishing techniques, including those from art and design to improve the appearance of their product	use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics		Follow procedures for safety and hygiene Use a wider range of materials and components than KSI, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components measure, mark out, cut and shape materials and components with some accuracy assemble, join and combine materials and components with some accuracy apply a range of finishing techniques, including those from art and design, with some accuracy		Follow procedures for safety and hygiene Use a wider range of materials and components than KSI, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components Accurately measure, mark out, cut and shape materials and components Accurately assemble, join and combine materials and components Accurately apply a range of finishing techniques, including those from art and design Use techniques that involve a number of steps Demonstrate resourcefulness when tackling practical problems	properties and aesthetic qualities
Evaluate: (Evaluate own ideas and products).	Children sharing their creations, explaining the process they have used	•	Talk about their design ideas and what they are making, Make simple judgements about their products and ideas against the design criteria Suggest how their products could be improved	Explore and evaluate a range of existing products Evaluate their ideas and products against design criteria		Identify the strengths and areas for development in their ideas and products Consider the views of others, including intended users, to improve their work Refer to their design criteria as they design and make Use their design criteria to evaluate their completed products	•	Identify the strengths and areas for development in their ideas and products Consider the views of others, including intended users, to improve their work Critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make Evaluate their ideas and products against their original design specification	Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. Understand how key
<u>Evaluate</u> ;	Children can choose one they like best from a selection of products and begin to say why they like it.		Explore existing product uses, who the product is for, how it works and what it is made from. Say what they like and dislike about products.		Inve	stigate and analyse How well products have been designed and made Why materials have been chosen	In	estigate and analyse How well products have been designed and made Why materials have been chosen	events and individuals in design and technology have helped shape the world

(Evaluation of existing		Suggest improvements to existing designs: What methods of construction have been used. If they work to achieve their purposes. How well products meet user needs and wants. Who designed and made the products. Where and when products were designed and made.		What methods of used If they work to ac How well products wants How much produc How innovative producted the work of the					
products).				Strand 1: Cookir	• Whether products reused ng and Nutrition			are What impact products have beyond their intended purpose	
	<u>EYFS</u>	YI	<u>Y2</u>	End of KSI Expectations	<u>Y3</u>	<u>Y4</u>	<u>Y5</u>	<u>Y6</u>	End of KS2 Expectations
Knowledge Progression: Cooking and Nutrition Milestone Knowledge	*To know that the five senses are sight, smell, touch, hearing and taste. *To know that eating well contributes to good health including growing. *To know that fruit and vegetables are healthy.	*To know that food can come from a plant or animal. * To know that fruit and vegetables are grown both in the UK and around the world. *To know that fruit and vegetables are healthy and that everyone should eat at least five portions of fruit and vegetables every day. *To know that food ingredients should be combined according to their sensory characteristics.	*To know that to prepare fruit and vegetables we have to peel and wash them. *To know that fruit and vegetables can be farmed or homegrown. *To know that harvest is the time where farmers gather their crops. *To know that the texture of food is one important characteristic - many vegetables have a crunchy texture. *To know that food comes from the UK and around the world due to differences in the climate and	*Use the basic principles of a healthy and varied diet to prepare dishes *Understand where food comes from.	*To know that a healthy diet is made up from a variety and a balance of different food and drink. *To know that a healthy diet is shown in the Eatwell Plate and each type of food are needed in different quantities to stay healthy. *To know that food ingredients can reared, caught or processed. *To know that some sandwiches can be healthy while others are unhealthy due to the choice of ingredients (including the filling, bread and spread).	*To know that the cooking and storage of meat is important due to risk of contamination. *To know that a recipe car be adapted by adding or substituting one or more ingredients *To know that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world. *To know that people make choices about the foods they ate with just one example being a vegetarian.	*To know that different cultures and religions have different types of breads containing different ingredients. *To know that bread could be a sweet or savoury product. *To know that most bread contains yeast and it is rising agent. *To know that we need to know that we need to know that we for it to rise. *To know that food intolerances are common with gluten a common allergen contained within bread.	*To know that different food and drink contains different substances - nutrients, - that are needed for health (revisit this knowledge and make clear links to Science). *To know that some fruits and vegetables are seasonal and grow at different times of the year. *To know that seasons may affect the food available and will impact on the recipe. *To know that most root vegetables are grown all year around. *To know that organic ingredients avoid the use of man-made fertilisers.	*Understand and apply the principles of a healthy and varied diet *Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques *Understand seasonality, and knowwhere and how a variety of ingredients are grown, reared, caught and processed.
	*To wash hands independently. *Manage their own basic hygiene and	*To wash hands independently and clean surfaces with	*To wash hands independently and clean surfaces with		*To wash hands independently and clean surfaces with support to prepare for	*To explain how to be safe and hygienic when cooking	*To explain how to be safe and hygienic when cooking creating personal guidelines.	*To explain how to be safe and hygienic when cooking creating personal guidelines.	

Skills	personal needs	support to prepare for	support to prepare for	cooking discussing	including safe use of	*To use a range of	*To use a range of	
Progression:	including food choices.	cooking:	cooking:	safe food storage.	heated equipment;	techniques including	techniques such as	
<u>i rogressiorii</u>	*To effectively use a	*To become familiar	*To cut, peel, grate	*To use a range of	*To use a range of	kneading and baking.	peeling, chopping,	
1 11 11 11	range of small tools,	with some basic	and blend a range of	techniques such as	techniques such as	*To weigh and	slicing, grating, mixing	
	including cutlery.	cooking techniques	fruit and vegetables	peeling, chopping,	peeling, chopping,	measure dry	spreading and	
lacksquare	*To use a butter knife	such as washing;	with increasing	slicing, grating, mixing	slicing, grating, mixing	ingredients and liquids	blending to create a	
	to cut and spread a	peeling and chopping	confidence and	and spreading to	and spreading to	with increasing	savoury product, with	
	range of ingredients.	(using soft fruit) with	accuracy.	create a savoury	create a savoury	confidence.	a brief to follow.	
Cooking and	*To practise stirring,	adult support	*To prepare a simple	producti	product.	*To prepare and cook	*To weigh and	
Nutrition.	mixing and pouring.	*To prepare a simple	dish safely and	*To choose the correct	*To prepare and cook	a product safely and	measure dry	
1400 00010		dish safely and	hygienically, without	tools and use them	a savoury dish safely	hygienically including	ingredients and liquids	
		hygienically, without	using a heat source	safely for a range of	and hygienically	(with the use of a heat	with increasing	
		using a heat source	carefully considering	techniques.	including (with the use	source) considering the	confidence.	
			the look and appeal.	*To prepare and cook	of a heat source)	audience and how a	* To prepare and cook	
				a savoury dish safely	considering the	recipe can be adapted.	a savoury dish safely	
				and hygienically with	audience.	*To independently	and hygienically using	
				increasing	*To begin to adapt	adapt recipes to	a range of cooking	
				independence and	recipes to change	change appearance,	techniques.	
				considering the	appearance, taste,	taste, texture and	*To independently	
				audience.	texture and aroma	aroma.	adapt recipes	
							accordingly to change	
							the appearance, taste,	
	N N 1 1	N	N. V. I.I.	N	N N 1	N. M. I. I.	texture and aroma	
	New Vocabulary	New Vocabulary:	New Vocabulary:	New Vocabularyı	New Vocabulary:	New Vocabulary:	New Vocabulary	
<u>Vocabulary</u>	Food, fruit, vegetable,	Hygiene, ingredients,	Harvest, season,	Varied, nutritious	Flavour, preparation,	Individual liberty,	seasonality, organic,	
Progression:	meal, snack, healthy,	grow, safety, chop, cut,	farmed, balanced, diet,	assemble, utensils,	contamination,	savoury, weigh,	nutrients, complement, combination.	
<u>i rogressiorii</u>	senses.	peel, combine, grip. A	variety, prepare, fresh,	reared, caught, processed, recipe. All	bacteria, storage, vegetarian.	measure, culture, yeast, rising, knead, dough,	Revisited Vocabulary:	
		range of sensory vocabulary.	texture, claw grip,	of the food groups.	Revisited Vocabulary:	gluten, intolerance.	ingredients, weigh,	
		Revisited Vocabulary	bridge grip. Revisited Vocabulary:	oj ine jood groups. Revisited Vocabulary:	Hygiene, reared,	Revisited Vocabulary	measure, hygiene,	
巻の 面		Fruit, vegetable,	Hygiene, ingredients,	Hygiene, Ingredients,	utensils.	Flavour, preparation,	nutrition, harvest	
~ ~ ~		healthy, senses.	safety, chop, cut, peel,	safety, balanced,	ttienstis.	hygiene, nutritious.	nuiriion, narvesi	
Cooking and		neatthy, senses.	combine, grip.	sajevy, bavancea, prepare, texture.		nygiene, nutritious.		
Nutrition			сониште, дгф.	prepare, texture.				

				Strand 2	: Textiles				
	<u>EYFS</u>	<u>YI</u>	<u>Y2</u>	End of KSI	<u>Y3</u>	<u>Y4</u>	<u>Y5</u>	<u>Y6</u>	End of KS2
				Expectations					Expectations
Knowledge Progression: Textiles Milestone	*To know that the five senses are sight, smell, touch, hearing and taste. *To begin to know a wide range of everyday materials. * To know that materials feel and look different with different textures and colours. * To know that objects can be threaded and	Retrieval of previously taught knowledges	* To know that a variety of different textiles can be used including dipryl, felt, and reclaimed fabric. * To know that a variety of joining techniques can be used including pinning, sewing, gluing or stapling. * To know that running stitch is the	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts.	Retrieval of previously taught knowledges	• To know that two dimensional shapes can be put together to create three dimensional products. • To know that in addition to the running stitch, additional stitches that could be used include backstitch and cross-stitch. • To know a widening range of decorative	Retrieval of previously taught knowledge.	To know that the properties of materials are significant to design choice including whether they have insulating properties and are water resistant. To know that in addition to running stitch, back stitch and cross-stitch, a range of decorative stitches	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts.
Knowledge	woven. • To know that one end must contain a knot so the objects do not fall off.		basic stitch in hand- sewing and embroidery, on which all other forms of sewing are based. • To know that finishing techniques could include use of buttons, wool, fabric paints and sequins	When designing and making, pupils should be taught to: Design (Design purposeful, functional, appealing products for themselwes and other users based on design criteria. Generate, develop, model and communicate their ideas through talking,		finishing techniques such as applique, embroidery, fabric pene/paints and printing. • To know that a seam allowance is is the area between the fabric edge and the stitching line on two (or more) pieces of material being sewn together.		could be used to appeal to the audience by considering consistency. * To know that CAD stands for computer-aided design and involves using on-line pattern making software to generate pattern pieces.	When designing and making, pupils should be taught to: Design (Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. Generate,
Skille Progressions EST	*To thread hoops onto their thread. * To use one colour or a mixture of colours naming colours and explaining choices. *To notice and begin to make different patterns. * To begin to tie the two ends together (with support).	Retrieval of previously taught knowledge.	* To design a product using templates and mock-ups to create fabric shapes. * To measure materials with some accuracy. * To select from and use a range of tools and equipment to perform practical tasks such as marking out, cutting, joining and	drawing, templates, mock-up, information and communication technology). Make (Select from and use a range of tools and equipment to perform practical tasks, Select from and use a wide range of materials and components, including construction materials,	Retrieval of previously taught knowledge	* To measure materials with some accuracy to create a 3D textiles product. * To measure materials with accuracy. * To select from and use wider range of materials and combine these to create useful characteristics. * To select from and use a wider range of	Retrieval of previously taught knowledge.	In addition to embedding previously taught knowledge, children will also: *To measure materials with increasing accuracy to create a 3D textiles product from a combination of fabric shapes. *To measure materials with complete accuracy.	develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design). Make (Select from and use a wider range of tools and equipment to

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			finishing with a focus	textiles and		tools and equipment to		* To produce pattern	perform practical tasks
			on running-stitch.	ingredients, according		perform practical tasks		pieces using CAD.	accurately. Select from
			 To select from and 	to the characteristics).		such as marking out,		 To effectively 	and use a wider range
			use textiles according			cutting, joining and		strengthen and	of materials and
			to their characteristics	Evaluate (Explore and		finishing with		stiffened a product.	components, including
			(building on Science	evaluate a range of		increased accuracy in		* To develop skills of	construction materials,
			knowledge).	existing products.		types of stitches.		sewing textiles by	textiles and
				Evaluate their ideas		* To consider a seam		joining right side	ingredients, according
				and products against		allowance.		together and making	to their functional
				design criteria).				seams.	properties and
								* To pin a pattern on	aesthetic qualities).
				Technical Knowledge				to fabric ensuring	
				(Build structures,				limited wastage, how	<u>Evaluate</u> (Investigate
				exploring how they				to leave a seam	and analyse a range of
				can be made stronger,				allowance and	existing products.
				stiffer and more stable.				different cutting	Evaluate their ideas
				Explore and use				techniques.	and products against
				mechanisms in their					their own design
	New Vocabulary:		New Vocabulary:	products).		New Vocabulary:		New Vocabulary:	criteria and consider
\/ 1 1	Threading, pattern,		Joining, marking out,			fabric, names of		Prototype, wadding,	the views of others to
<u>Vocabulary</u>	colour, material,	Retrieval of previously	template, stitch,		Retrieval of previously	specific fabrics,	Retrieval of previously	reinforce, hem.	improve their work
Progression:		taught knowledge.	finishing, decorate		taught knowledge.	fastening,	taught knowledge.	reagonos, riaria	Understand how key
		©			©	compartment,	©		events and individuals
ころと)	Revisited Vocabulary:			stiffening, seam, seam		Revisited Vocabulary:	in design and
_ ≥>			Design, fabric,			allowance		fabric, names of	technology have
— •			materials, glue, design,					specific fabrics,	helped shape the world
Textiles			cutting, evaluate.			Revisited Vocabulary:		fastening,	
<u> </u>						Joining, marking out,		compartment,	Technical Knowledge
						template, stitch,		stiffening, seam, seam	(Apply their
						finishing, decorate		allowance, Joining,	understanding of how
						, ,		marking out, template,	to strengthen, stiffen
								stitch, finishing,	and reinforce more
								decorate.	complex structures.
									Understand and use
									mechanical systems in
									their products
									Understand and use
									electrical systems in
									their products. Apply
									their understanding of
									computing to program,
									monitor and control
									their products.
									, and the second
							the state of the s		

				Strand 3:	Structures				
	<u>EYFS</u>	<u>YI</u>	<u>Y2</u>	End of KSI	<u>Y3</u>	<u>Y4</u>	<u>Y5</u>	<u>Y6</u>	End of KS2
				Expectations					Expectations
Knowledge Progression: Structures Milestone Knowledge	*To begin to know some everyday materials and some of their properties. *To know that different materials are used for different jobs. *To know that the shape of some materials can be changed by cutting them.	To know that materials are used for different purposes based on their properties. To know that structures can be made strongen, stiffer and more stable. To know that the shape of a structure can impacts it stability. To know that there are many jobs in engineering, design and construction.	Retrieval of previously taught knowledge.	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts. When designing and making, pupils should be taught to: Design (Design purposeful, functional, appealing products for themselves and other users based on design conteria. Generate, develop, model and communicate their	To know that there are a variety of both two-dimensional and three-dimensional shapes. To know a shell structure is a hollow structure made from a thin outer layer. To know that 3D shapes (such as sandwich box and including cubes and cuboids) are made from nets. To know that structures can be made stronger, stiffer and more stable.	Retrieval of previously taught knowledge.	To know and develop understanding of what structures are and how they can be made stronger, stiffer and more stable. To know that square frameworks can be reinforced using diagonals creating trangulation to add strength to a structure. To know that paper tubes can be made from rolling sheets of newspaper diagonally around pieces of e.g. dowel to reinforce and strengthen. To know that different tools can be used for different purposes but must be used safely in line with teacher expectations.	Retrieval of previously taught knowledge.	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts. When designing and making, pupils should be taught to: Design (Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals
Skilla Progression: Structures	To select appropriate tools for mark making To engage in basic construction e.g., stacking blocks vertically. To begin to develop basic joining construction skills e.g., little balance involved. To use everyday materials for junk modelling.	*To select from and use a range of tools and equipment to perform practical tasks such as marking out, joining with a focus on cutting. * To measure, mark out, cut and shape materials. * To assemble, join and combine materials and components with increasing accuracy.	Retrieval of previously taught knowledge	ideas through talking, drawing, templates, mockrup, information and communication technology). Make (Select from and use a range of tools and equipment to perform practical tasks. Select from and use a wide range of materials and components, including construction materials,	*To select skills and techniques of scoring, cutting out and assembling using predrawn nets. *To select different ways of stiffening and strengthening their shell structures e.g. folding and shaping, corrugating, ribbing, laminating. *To practise using computer-aided design	Retrieval of previously taught knowledge.	To select different ways of stiffening and strengthering 3D structures. To develop a simple design specification to guide the development of their ideas and products, taking account of constraints including time, resources and cost To demonstrate the accurate use of tools	Retrieval of previously taught knowledge.	or groups. Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design). Make (Select from and use a wider range of tools and equipment to

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		* To use simple		textiles and	(CAD) software to		and equipment		perform practical tasks
		finishing techniques		ingredients, according	design the net, text		(including techniques		accurately. Select from
		suitable for the		to the characteristics).	and graphics for their		using junior hacksaws,		and use a wider range
		structure they are			products according to		G-clamps, bench		of materials and
		creating.		Evaluate (Explore and	purposes.		hooks, square section		components, including
				evaluate a range of	*To use annotated		wood, card triangles		construction materials,
				existing products.	sketches, cross-		and hand drills to		textiles and
				Evaluate their ideas	sectional drawings and		construct wooden		ingredients, according
				and products against	exploded diagrams to		frames, as		to their functional
				design criteria).	develop and		appropriate).		properties and
					communicate their		* To use annotated		aesthetic qualities).
				Technical Knowledge	ideas		sketches and cross-		
				(Build structures,			sectional drawings to		<u>Evaluate</u> (Investigate
				exploring how they			develop and		and analyse a range of
				can be made stronger,			communicate their		existing products.
				stiffer and more stable.			ideas.		Evaluate their ideas
				Explore and use			uacus.		and products against
	New Vocabulary:	New Vocabulary:		mechanisms in their	New Vocabulary:		New Vocabularu:		their own design
	Design, test, model,	structure, framework,		products).	Protection, shell		Frame structure,		criteria and consider
<u>Vocabulary</u>	construct, strong.	cylinder, base, straight,	Retrieval of previously		structure, three-	Retrieval of previously	stiffen, strengthen,	Retrieval of previously	the views of others to
Progression:		curved, edge, function.	taught knowledge.		dimensional (3-D)	taught knowledge.	reinforce, triangulation,	taught knowledge.	improve their work
•					shape, net, cube,		stability.		Understand how key
2-		Revisited Vocabulary	G		capacity, prototype,	©	,	G	events and individuals
		cut, fold, join, fix			length, width,		Revisited Vocabulary;		in design and
		0 0 0			accuracy, adhesive.		Shell structure, three-		technology have
Structures					0		dimensional (3-D)		helped shape the world
					Revisited Vocabulary:		shape, net, cube,		
					structure, framework,		capacity, prototype,		Technical Knowledge
					cylinder, base, straight,		length, width,		(Apply their
					curved, edge, function.		accuracy, adhesive,		understanding of how
							structure, framework,		to strengthen, stiffen
							cylinder, base, straight,		and reinforce more
							curved, edge, function.		complex structures.
							•		Understand and use
									mechanical systems in
									their products
									Understand and use
									electrical systems in
									their products. Apply
									their understanding of
									computing to program,
									monitor and control
									their products.