<u>Progr</u>	ession of Skills t	hroughout Prima	ry Design Techno	logy - St Bede's	RC Primary Sch	ool
/FS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
						Year 6I can draw on market research or research a user's individual needs, wants and requirements, to inform a design.I can create own design criteria and specification for a product.I can come up with innovative design ideas.I can independently generate, develop, model, communicate and refine my ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, and pattern pieces.I can clearly explain how parts of my design will work, and how they are fit for purpose.I can follow and refine a logical plan for the design process.I know how much products cost to make, how sustainable and
					use CAD - omputer Aided Design. I am beginning to understand how much products cost to make and	make, how
		I can make templates and mock ups of my ideas in card or	I can make templates and mock ups of my ideas in card or paper.	I can make templates and mock ups of my ideas in card or paper.	I can make templates and mock ups of my ideas in card or paper.will work and how it will be suitable for the user.prototype.availability of resources.I can choose best tools and moted selection and my explainI have started to understand the environmentally friendly designingI am beginning to use computers to present my designs and ideas.	I can make templates and mock ups of my ideas in card or paper.will work and how it will be suitable for the user.prototype.availability of resources.logical, realistic plan and clearly explain it to others.I can make templates and mock ups of my ideas in card or paper.I can choose best tools and materials from a provided selection and my explain choices.I have started to understand the importance of environmentally friendly approaches to designing products.I am beginning to use computers to present my designs and ideas.I can consider the views of others, including intended users, to improve my work at the planning stage.I am beginning to use CAD - omputer Aided Design.I am beginning to use CAD - omputer Aided Design.I am beginning to use CAD - omputer Aided Design.

EYFSYear 1Year 2Year 3Year 4Year 5Year 6Adapt work if necessary. Dismantle, examine, talk about existing objects/ structures.I can talk about my product, discussing how well it works in relation to the design criteria.I can evaluate my for a can evaluate my design criteria, planning and making stages.I can refer to the design criteria, during the planning and making stages.I can evaluate the design criteria, during the planning and making stages.I can evaluate during the planning and making stages.Year 6	<u>Progress</u>
necessary. Dismantle, examine, talk about existing objects/ structures.my product, discussing how well it works in relation to the design criteria.work/product against the design criteria.design criteria, during the planning and making stages.design during the during the planning and making stages.quality of the design during the planning and making stages.quality of the design during the planning and making stages.quality of the design during the planning and making stages.	=S Ye
Streights in wy products in the independent hase in anwas independent base in anwas independent base in anwas independent base in anwas independent base in anwas independent base in anwas independent base in anwas is used. L can use design product and product and product my product and product is in the uses it and where it is used. L can use design product and product my product and product is in the uses it and where it is used. L can use design product and product my product and product is in the uses it and where it is used. L can use design product and product my product is in the uses it and where it is used. L can use design product my product and product is an product is product is produ	FS Ye pt work if essary. mantle, mine, talk ut existing ects/ ictures. sider and tage some risks. ctise some ropriate safety sures ependently. k about how ugs work. k at similarities differences ween existing ects/materials/ ls. cribe textures. about the sume contrological s. cribe textures. by cribe textures. cribe

		<u>ession of Skills 1</u>					
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Structures	Structures	<u>Structures</u>	Structures	Structures	Structures	Structures
	Begin to build	I am beginning to	I can	I am beginning to	I can choose	I can select	I can choose a
	structures from a range of materials.	build simple	independently,	choose materials	materials based on	materials for my	variety of material
	range of materials.	structures,	build simple	based on their	their functional	product based on	for my product and
	Mechanisms	exploring how they	structures,	functional	properties.	functional	justify choices
	Recognise that	can be made	exploring how they	properties.	I can apply my	properties and	based on function
	wheels need to	stronger, stiffer,	can be made with	I am beginning to	understanding of	aesthetic traits.	properties and
	turn.	and more stable.	greater stability.	apply my	strengthening,	I am beginning to	aesthetic traits.
		I can describe the	I can use joining,	understanding of	stiffening and	apply my	I can apply my
	<u>Textiles</u>	properties of	rolling, folding	strengthening,	reinforcing	understanding of	understanding of
	Explore the	different materials.	techniques to make	stiffening and	techniques to make	strengthening,	strengthening,
	properties of		my product	reinforcing	strong structures.	stiffening and	stiffening and
	different fabrics	<u>Mechanisms</u>	stronger.	techniques to make		reinforcing	reinforcing
	using all their	I can explore and		strong structures.	<u>Mechanisms</u>	techniques to build	techniques to buil
	senses.	use products with	<u>Mechanisms</u>	I can work	I can explain how	a more complex 3D	a more complex 3
		mechanisms such	I can create	accurately to make	mechanical	frame.	frame.
		as flaps, hinges,	products using	cuts and holes.	systems such as		
		and wheels.	mechanisms such		levers and linkages	<u>Mechanisms</u>	<u>Mechanisms</u>
		–	as levers, sliders.	<u>Mechanisms</u>	create movement.	I can explore how	I can explore
		Textiles		With help, I can	I am beginning to	mechanical	hydraulics and
		I am beginning to	I am exploring	use systems such	use pneumatics to	systems such as	pneumatics in
		measure, cut, and	products with	as levers and	create movement.	cams, pulleys, or	products and use i
		join different	axles and wheels.	linkages create		gears to create	as inspiration for a
		fabrics.		movement.	Textiles	movement.	design.
		I can choose	Textiles	I am exploring and	I think about the	I am exploring more	I can use cams,
2		suitable textiles	I can carefully	recognising a range	user and	complex mechanical	pulleys, and gears
5		for my product.	measure, cut, and	of mechanisms in	functionality when	systems.	to create
2			join different	existing products.	selecting a fabric	—	movement.
2			fabrics to make a	–	for my product.	Textiles	u
I SUTTING I STOWIED			simple product.	<u>Textiles</u>	I am beginning to	I consider the user,	<u>Textiles</u>
2			I understand how	I can choose a	design and draw	functionality and	I think about the
3			simple 3-D textile	fabric based on its	templates.	aesthetics of my	user's wants and
د			products are made,	appearance and	I can explain how to	product when	needs when
			using a template to	functionality.	join fabrics in	picking the fabric.	selecting a fabric
Š			create two identical	I can join textiles	different ways.	I can draw my own	for my product.
-			fabric shapes.	in different ways.	I know how to use	templates. I choose the most	I can draw my own
				I am beginning to	single fabric shapes		templates and mak
				use single fabric	to make a 3D	appropriate way to	prototypes.
				shapes to make a	textiles product.	join fabrics based	I use a range of
				3D textiles	Electrical Sustama	on the product's	appropriate joining techniques.
				product.	<u>Electrical Systems</u> I can make and	specification. I know that a 3D	I know that a 3D
				Electrical Sustama			
				<u>Electrical Systems</u> With support, I	represent simple electrical circuits,	textiles product can be made from a	textiles product can be made from
				can make and	such as a series	combination of	combination of
				represent simple electrical circuits,	and parallel, and with more than	fabric shapes.	fabric shapes.
				such as a series		Floctrical Sustains	Electrical Sustain
					one component, and use them to	<u>Electrical Systems</u>	<u>Electrical System</u> I can use the mo
				and parallel, and use them to	ana use tnem to create functional	I can incorporate a switch into an	
				use them to create functional	products.	a switch into an electrical circuit in	appropriate circu
					products.	electrical circuit in my product.	in my product and
				products.	T can preserve a		design ways in which adding a
				I have learnt	I can program a	I can use number	which adding a circuit would
					computer to	of components in a	
				about how to	control product.	circuit.	improve it.
				program a		The sector of th	-
				computer to		I am beginning to	I can program a
				control products.		program a	computer to
		1				computer to	monitor and
						monitor and control my	control my product.

Progr	ession of Skills t	throughout Prima	ry Design Techno	ology - St Bede's	RC Primary Sch	bol
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
EVFS Begin to understand some food preparation tools, techniques, and processes. Practise stirring, mixing, pouring, blending. Discuss how to make an activity safe and hygienic. Discuss use of senses. Understand need for variety in food. Begin to understand that eating well contributes to good health.	Year 1 I can explore where food comes from and know most food is either animal or plant based. With support, I am beginning to understand need to eat a variety of food from each food group on the 'The Eat well plate'. I am beginning to understand which foods are healthy and that everyone should eat at least five portions of fruit and vegetables every day. I can say how to prepare simple dishes safely and hygienically, prepping and cleaning cooking area and myself. With support, I can use techniques such as cutting, peeling, and grating. I can stir, mix, pour and blend.	Year 2 I am beginning to say if the food we eat is farmed, home-grown or caught. I can group food on the 'The Eat well plate'. I understand which foods are healthy and can discuss the phrase "5-a-day". I understand why hygiene is important when cooking food and say what we need to do to prepare simple dishes safely and hygienically. I can explain why we need to eat a variety of foods in our diet. I know how to use techniques such as cutting, peeling, and grating. I can stir, mix, pour and blend.	Year 3 I am beginning to understand which foods come from the UK, Europe, and the wider world. I am beginning to explore seasonality of food. With support, I am beginning to prepare and cook a variety of predominantly savoury dishess safely and hygienically. I can use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading, and baking safely and with growing confidence. Start to reflect on how a healthy diet is made up from a variety and balance of different foods and drink, as depicted in 'The Eat well plate'. I am beginning to understand that to be active and healthy, food and drink are needed to provide energy for the body.	Year 4 I know foods come from the UK, Europe, and the wider world. I understand food can be seasonal. I know if the food we eat is reared, farmed, or caught. I can explain the importance of working hygienically and safely when preparing and cooking food. I can prepare and cook a variety of predominantly savoury dishes safely and hygienically. I am exploring the differences between fresh, pre-cooked, or processed foods/ingredients. I can confidently use some of these techniques peeling, chopping, slicing, grating, mixing, spreading, kneading, and baking safely. I can describe 'The Eat well plate' and how a healthy diet is made up from a variety and balance of different foods and drink. I understand that to be active and healthy, food and drink are needed to provide energy for the body.	 Year 5 I know food is caught, reared, or cultivated (grown) in the UK, Europe, and the wider world and we have access to certain food all year round due to imports from other countries. I can explain the importance of working hygienically and safely and can follow guidelines. I can prepare and cook a variety of dishes safely and hygienically. I am beginning to adapt recipes and explore different flavour/ texture/ aroma/ appearance combinations. I can confidently use a range of food preparation techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading, and baking safely. I understand the principles of a healthy and varied diet and can talk about what each food group on the Eat Well plate provides the body. I am beginning to explore substances in food and drink that help our bodies stay active and healthy. I am beginning to consider the presentation of the 	 Year 6 I can name foods that are caught, reared, or cultivated (grown) in the UK, Europe, and the wider world and seasonality of them and how supermarkets deal with this. I can prepare and cook a variety of dishes safely and hygienically, where appropriate using a heat source. I can adapt recipes, adding or substituting ingredients to achieve innovative flavours or meet the specification of the design. I can confidently use a range of food preparation techniques that I have practised across YR-Y5 I know there are a variety of food processing methods. I ca explain and apply the principles of a healthy and varied diet in both presentations and in a meal/menu design. I can describe some different substances in food and drink and how it affects our bodies. I have a plan of how I want my meal to be presented, to appeal to the diner.