Grimsargh St Michael's CE Primary School Design and Technology Progression

Areas of study	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Investigative and Evaluative	Children use what they have learnt about	Explore existing products and	Explore existing products and	Investigate similar products to the one to	Investigate similar products to the one to	Research and evaluate existing products.	Research and evaluate existing products.
Activities	media and materials in	investigate how they	investigate how they	be made to give	be made to give		
Activities	original ways, thinking	have been made.	have been made.	starting points for a	starting points for a	Consider UPAQ – User	Consider UPAQ – User
/IFA a\	about uses and purposes as set out in	Decide how existing	Talk about their design	design.	design.	Purpose, Aesthetics, Quality.	Purpose, Aesthetics, Quality.
(IEAs)	the Early Learning	products do/do not	as they develop and	Draw/sketch products	Draw/sketch products	Quality.	Quanty.
	Goals.	achieve their purpose.	identify good and bad	to help analyse and	to help analyse and	Identify the strengths	Understand how key
			points.	understand how	understand how	and weaknesses of the	people have influenced
		Note changes made		products are made.	products are made.	design ideas.	design.
		during the making process as annotation	Decide how existing products do/do not	Identify the strengths	Investigate key events	Consider and explain	Identify the strengths
		to plans/drawings.	achieve their purpose.	and weaknesses of	and individuals in	how the finished	and weaknesses of
		to plans, arawings.	demete their purpose.	their design ideas in	Design and	product could be	others' design ideas.
		Talk about their design	Note changes made	relation to	Technology.	improved related to	
		as they develop and	during the making	purpose/user.		design criteria.	
		identify good and	process as annotation		Research needs of		
		bad points.	to plans/drawings		user.	Discuss how well the	
					Identify the strengths	finished product meets the need.	
					and weaknesses of	the need.	
					others' design ideas in		
					relation to		
					purpose/user.		
Focused Tasks	In food and nutrition,	Understand basic food	Use construction kits	Join fabrics using	Fault find in electrical	Disassemble and	Use wire strippers,
	experience a range of	hygiene practices	to make a product that	running stitch, over	systems with switches	reassemble a cam	twist and tape
(FTs)	cooking & baking activities and	when handling food.	moves.	sewing, blanket stitch.	and bulbs.	model.	electrical connections, screw connections.
	experience and	Practise food	Build a chassis, using	Prototype a product	Make a variety of	Use models to	
	develop an interest in	processing skills such	free or fixed axles and	using J cloths, card or	switches and test them	understand cam	Understand how to
	how some fruits and	as washing, grating,	wheels to enable	paper.	in a simple circuit.	movement as a linear	avoid making a short
	vegetables grow.	peeling, slicing,	movement.	For the section of the section	Describes and live and	representation.	circuit.
	In textiles, develop the	squeezing.	Know different	Explore strengthening and stiffening of	Practise making nets from card, scoring,	Thread needles and	Understand the
	skills of drawing round	Explain where food	methods of holding	fabrics.	cutting and	join fabrics using a	benefits of recycling
	a template,	comes from.	axles.		assembling.	range of stitches.	and how countries
	stitching by using a			Explore fastenings.			without facilities are
	stencil with	Understand healthy	Join fabrics by using		Work safely and	Make seams and join	developing creative
	holes and laces.	eating advice, using	e.g. running stitch, glue	Understand seam	hygienically.	right sides together.	ideas for reusing
	In structures dougles	the eatwell plate and	and over sewing.	allowance.			plastics.
	In structures, develop problem solving skills	talk about the importance of fruit and					
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	when making models	vegetable in a	Understand how	Develop vocabulary	Know where and how	Make a paper	
	and skills using scissors	balanced diet.	fabrics can be	related to the project.	ingredients are grown	prototype or a J-cloth	
	to cut paper and card.		decorated with e.g.		and processed.	mock up.	
		Replicate slider and	buttons, beads,	Use mechanical			
	In Mechanisms,	lever examples.	sequins, braids,	systems such levers	Weigh and measure	Consider the	
	explore a range of		ribbons.	and linkages.	using scales.	properties of	
	joining products e.g.	Fold paper or card in				ingredients and	
	tape, glue and use a	different ways to make	Develop a food	Practise replicating a		sensory characteristics.	
	range of construction	freestanding	vocabulary using taste,	chosen mechanical			
	kits to create models.	structures.	smell, texture and feel.	system in card.		Know where and how	
						ingredients are grown	
		Use construction kits	Group familiar food			and processed.	
		to build structures.	products e.g. fruit and				
			vegetables.			Consider influence of	
		Practise marking,				chefs e.g. Jamie Oliver	
		measuring, cutting and	Explain where food			and school meals,	
		joining techniques.	comes from.			Hugh Fearnley-	
						Whittingstall and	
			Cut, peel, grate, chop,			sustainable fishing	
			spread a range of				
			ingredients.				
			Understand the need				
			for a variety of foods in				
			a diet.				
Design, Make and	Represent their own	Generate simple	Identify a user and	Create a design brief	Develop a design brief	Develop authentic and	Develop authentic and
Evaluate	ideas, thoughts and	design criteria	purpose	together, set within an	together which is	meaningful design	meaningful design
	feelings.	together.		authentic, meaningful	authentic and	briefs together.	briefs together.
Assignments			Generate, develop and	context.	meaningful.		
	Talk about their ideas,	Develop ideas through	communicate their			Generate innovative	Generate innovative
(DMEAs)	choose resources,	talking, drawing and	ideas as appropriate	Think about UPAQ –	Think about UPAQ –	ideas by carrying out	ideas by drawing on
	tools and techniques	making mock-ups with	e.g. through talk and	User, Purpose,	User, Purpose,	research.	research.
	with a purpose in	construction kits and	drawing.	Aesthetics and Quality.	Aesthetics and Quality.		
	mind.	materials.				Develop a design	Develop a design
			Generate a range of	Use annotated design	Understand the	specification for their	specification for their
	Safely use a variety of	Talk about their design	ideas.	drawings to	purpose of the battery	product, carefully	product, carefully
	materials and tools	as they develop and		communicate ideas.	powered products to	considering UPAQ.	considering UPAQ.
	considering colour,	identify good and	Discuss the stages in		be made.		
	texture, form and	bad points.	making before	Produce mock-ups and		Communicate ideas	Communicate ideas
	function.	baa points.	assembling quality	prototypes of	Generate a range of	through detailed,	through annotated
		Talk about the order of	products.	products.	realistic ideas, given	annotated drawings	sketches, pictorial
		work together, using				from different views	representations of
		work together, using					

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	Experiment and build	simple language First	Make their product	Plan the main stages of	time and material	and/or exploded	electrical circuits
	with a range of	Next Last	using their design ideas	making e.g. using a	constraints.	diagrams.	and/or circuit
	construction resources.		and criteria as an	flowchart or			diagrams.
		Evaluate developing	ongoing guide.	storyboard.	Agree on design	Drawings should	Drawings should
	Make models using	ideas and final	Add finishings to their		criteria that is used to	include the location of	indicate the design
	different materials and	products against the	product with reference	Assemble products	guide the development	mechanical	decisions made.
	experiment with	original design.	to their design ideas	using existing	and evaluation	components, how they	
	different ways to join		and criteria.	knowledge, skills and	process, including	work as a system with	Electrical design
	and assemble.			understanding.	criteria relating to	an input, process and	drawings should
			Consider utensils and		healthy eating and a	output and the	include the location of
	Talk about what they		food processes.	E. al. ata an the array	varied diet.	appearance and finish	the electrical
	like/dislike about their		Contrata anasina con	Evaluate as the process is undertaken and the	Usa sanatatad	of the product.	components.
	models saying why and how they would		Evaluate ongoing work and their finished	final product in	Use annotated sketches.	Produce step by step	Produce detailed step-
	change them.		product,	relation to the design	SKELLITES.	Produce step-by-step plans and list of tools,	by-step plans and lists
	change them.		communicating how it	brief and criteria.	Create paper	equipment and	of tools, equipment
			works and matches	brief and criteria.	prototypes of ideas.	materials needed.	and materials needed.
			their design criteria,	The product should be	prototypes or lucus.	materials needed.	and materials needed.
			including any changes	tested by the intended	Consider the main	Make high quality	Make high quality
			made.	use and for its	stages in making and	products with	products, applying
				purpose.	testing before	accuracy, applying	knowledge,
				P. P. P.	assembling high quality	knowledge,	understanding and
				Identify possible	products.	understanding and	skills.
				improvements.		skills.	
					Evaluate throughout		Critically evaluate the
					and the final products	Model structural ideas	quality of the design,
					against the intended	first using paper etc.	the manufacture,
					purpose and with the		functionality,
					user, drawing on the	Use a range of	innovation shown and
					design criteria agreed.	decorative finishing	fitness for the
						techniques to ensure a	intended user and
						well finished final	purpose.
						product that matched	
						the intended user and	Test the electrical
						product.	system to demonstrate
						Contrata thus cale the	its effectiveness for the
						Evaluate through the	intended use and
						process and the final	purpose.
						product in use, comparing it the	
						design spec.	