Sutton Park Primary School





		Research								
Year 2	Year 3	Year 4	Year 5	Year 6						
lucts, discussing how they	Learn about how key events and	l individuals in design and te	chnology have helped shape t	he world.						
are made and how they work. Discuss how these products could help them with their own design		of existing products, discussi	ng their features, constructio	n, purpose and intended						
	ucts, discussing how they	Learn about how key events and Investigate and analyse a range	Learn about how key events and individuals in design and te Investigate and analyse a range of existing products, discussi	Learn about how key events and individuals in design and technology have helped shape to the local structure of th						

Design					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Use pictures, words and models to convey what they want to design Select pictures to help develop ideas and explain what they are making and which materials/ ingredients they are using Discuss their work as it progresses	Use pictures and words to convey what they want to make Use drawings to record ideas as they are developed Add notes to drawings to help with explanations Say how their products will work	Investigate products to the one being made to give a starting point for design Draw product to help understand how they are made Think ahead about the order of their work Describe the purpose of their products	investigate and analyse existing functional products and draw products to help understand how and why they are made Develop more than one design or adaptation of an initial design Indicate the design features of their products that will appeal to intended users	Analyse a range of functional products to develop ideas and prototypes. Sketch and model alternative ideas and record them using annotated diagrams with increasing detail to show they are fit for purpose Carry out research, using surveys, interviews,	Make design decisions, taking account of constraints such as time, resources and cost Justify plans in a convincing way Generate and develop ideas using a range of design techniques Identify the needs, wants, preferences and values of

Say whether their products are for themselves or other	Say how they will make their products suitable for	Explain how particular parts of their products	questionnaires and web- based resources	particular individuals and groups
users	their intended users	work	based resources	βισαρί
Describe what their products are for	Use knowledge of existing products to help come up with ideas			
Generate ideas by drawing on their own experiences				

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Outcome: Make a healthy		Outcome: Make a stew			Outcome: Islamic dish
picnic					
		Build on their food			Use scales to measure
		vocabulary acquired in key			accurately
Understand the basic		stage 1 by increasing their			,
principles of a healthy diet		sensory vocabulary and			Cut and shape ingredients
and that everyone should		knowledge around how			using appropriate tools and
eat at least five portions of		foods feel, smell and taste			equipment
fruit and vegetables every					
day		Make healthy eating			Decorate dishes based on
		choices from an			knowledge of simple
Name and sort foods into		understanding of a			ingredients used to
the five groups in 'The		balanced diet when			decorate dishes
Eatwell plate'		designing their product.			
-		Know that to be active and			Understand the importance
Understand that all food		healthy, food and drink are			of correct storage and
comes from plants or		needed to provide energy			handling of ingredients
animals		for the body			(using knowledge of micro-
					organisms).

Understand that food has	Say how and why they	Measure accurately and
to be farmed, grown	need to work safely and	calculate ratios of
elsewhere (e.g. home) or	hygienically by providing	ingredients to scale up or
caught	examples they have used	down from a recipe.
	when preparing the food	
Develop a food vocabulary	using utensils	Create and refine recipes,
using taste, smell, touch		including ingredients,
and texture	Use a range of techniques	methods
and texture	such as peeling, chopping,	memous
Custo and share a usus as of	slicing, grating, mixing,	Wassished assessed to the
Grate and chop a range of	spreading, kneading and	Know that seasons may
ingredients		affect the food available
	baking	
Measure and weigh food		Know how food is
items using non-statutory	Understand seasonality and	processed into ingredients
measures such as cups	which products can be	that can be eaten or used
	grown locally and which	in cooking
Demonstrate how to work	can't.	
safely and hygienically		
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Know that food is grown	
Assemble or cook	(such as tomatoes, wheat	
ingredients.	and potatoes), reared (such	
lligredients.	as pigs, chickens and cattle)	
	and caught (such as fish) in	
	the UK, Europe and the	
	wider world	
	wider world	
	NA	
	Measure ingredients to the	
	nearest gram accurately.	
	Follow a recipe and	
	assemble or cook	
	ingredients	

ake: Mechanisms						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
	Outcome: Create a moving	Outcome: Create a pulley			Outcome: Create a Hull	
	picture				Fair ride using cams	
		Build on their scientific				
	Create a mechanism using	knowledge of the			Build frameworks using	
	a lever	transference of forces in			range of material to	
		year 3 to choose			support mechanisms	
	Use the lever to move a	appropriate mechanisms				
	picture	for a product			Know how mechanical	
					systems such as cams o	
		Draw on their knowledge of			and gears create	
		pulley systems to solve a			movement	
		problem to demonstrate				
		how the Egyptians made it			Convert rotary motion	
		easier to lift rocks using			linear using cams	
		pulleys				
		Build a wooden frame and				
		strengthen this with				
		diagonal struts				
		Measure, mark and cut the				
		wood to 1cm				
		Attach and construct the				
		pulley system				

Make: Textiles					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Outcome: Create a textile square to represent The Great Fire of London		Outcome: Create a Roman Toga or a stola	Outcome: Headscarf	

		Join textiles neatly using	Join fabrics by pinning and	
Measure and cut t	textiles	basic stitch techniques	tacking pieces together	
accurately to mak		(running, back and over	tasiming process to Bettier	
product.		sewing)	Stitch using a range of	
p. oddet.		3c6)		
loin toytilos togot	horusing	Decerate using gross stitch	stitches including blanket	
Join textiles toget	ner using	Decorate using cross stitch	stitch	
a running stich				
		Explore fastening and	Create objects that employ	
		recreate some e.g. sew on	a seam allowance	
		buttons and create loops		
			Join textiles with a	
			combination of stitching	
			techniques (such as back	
			stitch for seams and	
			running stitch to attach	
			decoration).	
			,	
			Use the qualities of	
			materials to create suitable	
			visual and tactile effects in	
			the decoration of textiles	
			(such as a soft decoration	
			for comfort on a cushion).	

Make: Structures						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Outcome: Make a dolls			Outcome: Make a bridge	Outcome: Build a model of		
house				a flood proof house.		
			Cut wood using a hacksaw			
Build on their scientific				Test a range of materials		
knowledge of properties of				for strength		
materials to choose						

appropriate materials for		Glue wood to	Test a range of materials	
their house		strengthening corners	for absorbency	
then house		ou engine mig conters	101 absorbency	
Measure and mark out		Measure and mark out to	Test resistance to wind as	
materials to be cut using a		the nearest centimetre.	well as flooding	
template		the hearest centimetre.		
template		D of	Measure and mark out to	
		Demonstrate a range of	the nearest millimetre	
Join materials to make a 3D		joining techniques (such as	the nearest minimetre	
house using glue and tape		gluing or combining	Explore shell and frame	
		materials to strengthen).	structures	
Cut materials safely using			structures	
tools provided.		Use wood to practise		
		drilling, screwing, gluing	Develop ideas on how to	
Demonstrate a range of		and nailing materials to	use modelling materials to	
cutting and shaping		make products	represent 'real-life'	
techniques (such as tearing,			products e.g. lolly sticks	
cutting, folding and curling)			represent planks of wood	
to make a product stronger				
			Explore how to join	
			materials together in the	
			most effective way e.g.	
			string, sellotape, masking	
			tape, elastic bands, metal	
			fastenings, glue gun, glue	
			etc)	
			Make design decisions,	
			taking account of	
			constraints resources, costs	
			and sustainability	
			,	
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Evaluate	Evaluate						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
I am beginning to explore and verbally evaluate a range of existing products by evaluating the product against the purpose	I can explore and evaluate a range of existing products by looking at function and materials	I can investigate and analyse an existing product by identifying whether it is fit for purpose and how easy it is to use.	I can explain why certain materials were used to make existing products I can evaluate and suggest improvements	I can explain how sustainable the materials in products are and what impact products have beyond their intended purpose	I can critically evaluate the quality of the design, manufacture and fitness for purpose by comparing existing products		
I can say whether my products match the design criteria's	I can evaluate my ideas and products against set design criteria. I can say what was the	I can prove that my design meets some set criteria's and evaluate how well it works	for my design. I can identify strengths and areas for development in my	I can evaluate the appearance and function of my product against the original criteria.	I can evaluate my ideas and products against my own design criteria and consider the views of		
I can evaluate my designs and products by saying how well they do the job they were designed for	best feature of my products I can say what I would do to improve the products further	HOW WEITE WOTKS	product	I am able to justify decisions made during the design process	others to improve my work		
I can say what I like about my products							