Subject area: Design and Technology



EYFS	FS Hold a pencil effectively in preparation for fluent writing – using the tripod grip in almost all cases; - Use a range of small tools, including scissors, paint brushes and cutlery; - B accuracy and care when drawing.						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
	With support children begin to	Children can	Children begin to	Children can	Children begin to	Children can	
Design	use their knowledge of existing products and their own experience to help generate their ideas design products that have a purpose and are aimed at an intended user explain how their products will look and work through talking and simple annotated drawings		 identify the design features of their products that will appeal to intended customers; use their knowledge of a broad range of existing products to help generate their ideas; design innovative and appealing products that have a clear purpose and are aimed at a specific user; explain how particular parts of their products work; 		 use research to inform and develop detailed design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at a target market; use their knowledge of a broad range of existing products to help generate their ideas; design products that have a clear purpose and indicate the design features of their products that will appeal to the intended user; explain how particular parts of their products work; 		
	design models using simple computing software plan and test ideas using templates and mock- ups		develop and communicate	nd cross-sectional drawings to e their ideas; ifferent initial ideas before coming	use annotated sketches, cro	sor their products work; ss-sectional drawings and exploded diagrams r-aided design) to develop and communicate their	
	understand and follow simple design criteria work in a range of relevant contexts		when planning, start to explain their choice of materials and components including function and aesthetics;			deas and clearly communicate final designs; costings of resources when planning out designs;	
			test ideas out through using prototypes; use computer-aided design to develop and communicate their ideas		home, school, leisure, cultur	evant contexts, for example conservation, the re, enterprise, industry and the wider environment	
				design criteria; f relevant contexts, for example school, leisure, food industry and			

Plan			
with support, follow a simple plan or recipe;	Plan	Plan	
	with growing confidence, carefully select from a range of	independently plan by suggesting what to do next;	
begin to select from a range of hand tools and	tools and equipment, explaining their choices;		
equipment, such as scissors, graters, zesters,		with growing confidence, select from a wide range of tools and equipment, explaining their choices;	
safe knives, juicer;	select from a range of materials and components		
	according to their functional properties and		
select from a range of materials, textiles and	aesthetic qualities;	select from a range of materials and components according to their	
components according to their characteristics;		functional properties and aesthetic qualities;	
Practical skills and techniques	place the main stages of making in a systematic order;		
learn to use hand tools and kitchen equipment		create step-by-step plans as a guide to making;	
safely and appropriately and learn to follow	Practical skills and techniques		
hygiene procedures;	learn to use a range of tools and equipment safely,	Departicul skills and tasky invos	
	appropriately and accurately and learn to follow	Practical skills and techniques	
use a range of materials and components,	hygiene procedures;	learn to use a range of tools and equipment safely and appropriately and	
including textiles and food ingredients;		learn to follow hygiene procedures;	
	use a wider range of materials and components, including		
with help, measure and mark out;	construction materials and kits, textiles and mechanical and	independently take exact measurements and mark out, to within 1	
cut, shape and score materials with some	electrical components;	millimetre;	
accuracy;			
	with growing independence, measure and mark out to the	use a full range of materials and components, including construction	
assemble, join and combine materials,	nearest cm and millimetre;	materials and kits, textiles, and mechanical components;	
components or ingredients;			
demonstrate because and share and take fabric	cut, shape and score materials with some degree of	cut a range of materials with precision and accuracy;	
demonstrate how to cut, shape and join fabric to make a simple product;	accuracy;	shape and score materials with precision and accuracy;	
to make a simple product,		assemble, join and combine materials and components with accuracy;	
manipulate fabrics in simple ways to create	assemble, join and combine material and components		
the desired effect;	with some degree of accuracy;	demonstrate how to measure, make a seam allowance, tape, pin, cut, shape	
		and join fabric with precision to make a more complex product;	
use a basic running stich;	demonstrate how to measure, cut, shape and join fabric		
	with some accuracy to make a simple product;	join textiles using a greater variety of stitches, such as backstitch, whip	
cut, peel and grate ingredients, including		stitch, blanket stitch;	
measuring and weighing ingredients using measuring cups;	join textiles with an appropriate sewing technique;		
	begin to select and use different and appropriate finishing	refine the finish using techniques to improve the appearance of their product, such as sanding or a more precise scissor cut after roughly cutting out a shape.	
begin to use simple finishing techniques to	techniques to improve the appearance of a product such as		
improve the appearance of their product, such	hemming, tie-dye, fabric paints and digital graphics.		
as adding			
simple decorations			

Make

explore and evaluate existing products mainly explore and evaluate existing products, explaining the purpose complete detailed competitor analysis of othe	r products on the market:
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through discussions, comparisons and simple of the product and whether it is designed well to meet the	
written evaluations; intended purpose critically evaluate the quality of design, manuf	acture and fitness for purpose of
products as they design and make;	
explain positives and things to improve for explore what materials/ingredients products are made from	
existing products; and suggest reasons for this; evaluate their ideas and products against the or	original design criteria, making
changes as needed.	
explore what materials products are made consider their design criteria as they make progress and are	
from; willing to alter their plans, sometimes considering the views of	
و others if this helps them to improve their product;	
g talk about their design ideas and what they	
g talk about their design ideas and what they g are making; evaluate their product against their original design criteria;	
as they work, start to identify strengths and evaluate the key events, including technological	
possible changes they might make to refine developments, and designs of individuals in design and	
their existing design; technology that have helped shape the world.	
evaluate their products and ideas against their	
simple design criteria;	
start to understand that the iterative process	
sometimes involves repeating different stages	
of the process.	
build simple structures, exploring how they understand that materials have both functional properties and apply their understanding of how to strengt	then, stiffen and reinforce more
can be made stronger, stiffer and more stable; aesthetic qualities; complex structures in order to create more use	eful characteristics of products;
talk about and start to understand the simple apply their understanding of how to strengthen, stiffen and understand and demonstrate that mechanical	and electrical systems have an
working characteristics of materials and reinforce more complex structures in order to create more input, process and output;	
ଙ୍କି components; useful characteristics of products;	
explain how mechanical systems, such as came	s, create movement and use
explore and create products using understand and demonstrate how mechanical and electrical mechanical systems in their products;	
رم mechanisms, such as levers, sliders and systems have an input and output process;	
working characteristics of materials and components;reinforce more complex structures in order to create more complex structures in order to create more useful characteristics of products;input, process and output;explore and create products using mechanisms, such as levers, sliders and wheels.understand and demonstrate how mechanical and electrical systems have an input and output process;explain how mechanical systems, such as came mechanical systems in their products;make and represent simple electrical circuits, such as a series product.apply their understanding of computing to pro product.	gram, monitor and control a
The make and represent simple electrical circuits, such as a series product.	
F and parallel, and components to create functional products;	
explain how mechanical systems such as levers and linkages	
create movement;	
use mechanical systems in their products.	

	explain where in the world different foods	start to know when, where and how food is grown (such as	know, explain and give examples of food that is grown (such as pears, wheat	
	originate from;	herbs, tomatoes and strawberries) in the UK, Europe and the	and potatoes), reared (such as poultry and cattle) and caught (such as fish) in	
		wider world;	the UK, Europe and the wider world;	
	understand that all food comes from plants or			
	animals;	understand how to prepare and cook a variety of	understand about seasonality, how this may affect the food availability and	
	,	predominantly savoury dishes safely and hygienically;	plan recipes according to seasonality;	
	understand that food has to be farmed, grown			
	elsewhere (e.g. home) or caught;	with support, use a heat source to cook ingredients showing	understand that food is processed into ingredients that can be eaten or used in	
	eisewhere (e.g. nome) of caught,	awareness of the need to control the temperature of the hob	cooking;	
	name and sort foods into the five groups in the	and/or oven;	Cooking,	
	Eatwell Guide;		demonstrate how to prepare and cook a variety of predominantly sayoury	
L L	Eatwell Guide,			
itic		use a range of techniques such as mashing, whisking, crushing,	dishes safely and hygienically including, where appropriate, the use of a heat	
utr	understand that everyone should eat at least	grating, cutting, kneading and baking;	source;	
Z	five portions of fruit and vegetables every day			
Cooking and Nutrition	and start to explain why;	explain that a healthy diet is made up of a variety and balance	demonstrate how to use a range of cooking techniques, such as griddling,	
ы В С		of different food and drink, as represented in the Eatwell	grilling, frying and boiling;	
oki	use what they know about the Eatwell Guide	Guide and be able to apply these principles when planning and		
ŏ	to design and prepare dishes.	cooking dishes;	explain that foods contain different substances, such as protein, that are	
_			needed for health and be able to apply these principles when planning and	
		understand that to be active and healthy, nutritious food and	preparing dishes;	
		drink are needed to provide energy for the body;		
			adapt and refine recipes by adding or substituting one or more ingredients to	
		prepare ingredients using appropriate cooking utensils;	change the appearance, taste, texture and aroma;	
		measure and weigh ingredients to the nearest gram and	alter methods, cooking times and/or temperatures;	
		millilitre;		
			measure accurately and calculate ratios of ingredients to scale up or down	
		start to independently follow a recipe;	, , , , , , , , , , , , , , , , , , , ,	
			from a recipe;	
		start to understand seasonality	independently follow a regine	
		start to understand seasonality.	independently follow a recipe.	

use research to inform and develop detailed design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at a target market;

use their knowledge of a broad range of existing products to help generate their ideas;

design products that have a clear purpose and indicate the design features of their products that will appeal to the intended user;

explain how particular parts of their products work;

use annotated sketches, cross-sectional drawings and exploded diagrams (possibly including computer-aided design) to develop and communicate their ideas;

generate a range of design ideas and clearly communicate final designs;

consider the availability and costings of resources when planning out designs;

work in a broad range of relevant contexts, for example conservation, the home, school, leisure, culture, enterprise, industry and the wider environment.