

	Nursery and Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	EYFS Children ~	KS1 National Currice Children ~	ulum	KS2 National Curriculum Children ~					
	understand that media can be combined to create new effects.  construct with a purpose in mind, using a variety of resources.  use simple tools and techniques competently and appropriately.  select appropriate resources and adapt work where necessary.	generate, develop, communicate their talking, drawing, te and, where appropriand communication select from and use and equipment to ptasks [for example, joining and finishing select from and use	for themselves and on design criteria.  model and ideas through mplates, mock-ups riate, information a technology.  a range of tools perform practical cutting, shaping, and wide range of tools perform practical cutting, shaping, and ideas the conents, including the conents, including the conents, including the conents, including the conents and including the cone cone cone cone cone cone cone con	for purpose, aimed at particular generate, develop, model and exploded diagrams, prototype select from and use a wider rationing and finishing], accurate select from and use a wider ratingredients, according to their investigate and analyse a range evaluate their ideas and prodivork.  understand how key events a apply their understanding of the services and prodivores.	lar individuals or groups.  I communicate their ideas throes, pattern pieces and computerange of tools and equipment to ely.  I ange of materials and componer functional properties and aester of existing products.  I and individuals in design and techow to strengthen, stiffen and	perform practical tasks [for executed]	cches, cross-sectional and cample, cutting, shaping, sterials, textiles and of others to improve their world.		

select tools and techniques needed to shape, assemble and join materials they are using.

safely use and explore a variety of materials, tools and techniques, experimenting with design, form and function.

create simple representations of objects.

use what they have learnt about media and materials in original ways, thinking about uses and purposes.

explore and evaluate a range of existing products.

evaluate their ideas and products against design criteria.

build structures, exploring how they can be made stronger, stiffer and more stable.

explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.

use the basic principles of a healthy and varied diet to prepare dishes.

understand where food comes from.

understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors].

apply their understanding of computing to program, monitor and control their products.

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 know where and how a variety of ingredients are grown, reared, caught and processed.



	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
M A K E	explore collections of materials with similar and/or different properties.  use a variety of tools and materials to make models.  explore different materials freely, develop their ideas about how to use them and what to make.  develop their own ideas and then decide which materials to use to express them.	graters, zesters, safe knives, juicer).  select from a range of materials, textiles and components according to their characteristics.	children can: independently follow a simple plan or recipe.  select from a range of hand tools and equipment (such as scissors, graters, zesters, safe knives, juicer) and use them correctly.  select from a range of materials, textiles and components according to their characteristics, discussing why they are appropriate for the task.  Practical skills and techniques	Children can: Plan with growing confidence, carefully select from a range of tools and equipment, explaining their choices Select from a range of materials according to their functional properties and aesthetic qualities; (Sewing)  Follow a recipe/method in a systematic order. (Pizza + Sewing)  Learn to use a range of tools	Children can: Plan with growing confidence, carefully select from a range of tools and equipment, explaining their choices Select from a range of materials and componen ts according to their functional properties and aesthetic qualities (CAMS)	Children can: Plan independently by suggesting what to do next  Select from a wide range of tools and equipment, explaining their choices (Bread+soup)  select from a range of materials according to their functional properties and aesthetic qualities (Sewing)	Children can: Plan independently plan by suggesting what to do next  Select from a wide range of tools and equipment, explaining their choices (Pies + fairground rides)  Select from a range of materials and components according to their functional properties and aesthetic qualities (Fairground rides)  Create step-by-step plans as a guide to making (Fairground rides and pies)  Learn to use a range of tools and equipment safely

join different materials and explore different textures.	Practical skills and techniques	learn to use hand tools and kitchen equipment safely and	and equipment safely. Learn to follow hygiene procedures	Follow a recipe/method in a systematic order	Create step-by-step plans as a guide to making (Sewing +	and appropriately and follow hygiene procedures (Pies)
use one-handed tools and equipment, for example, making snips in paper with scissors; develop their fine motor skills so that they can use a range of tools competently, safely and confidently;	equipment safely and appropriately and learn to follow hygiene procedures.  follow a pattern / template to create a	appropriately and learn to follow hygiene procedures.  measure and mark out items to make a model using the most appropriate resources (ruler,	(Pizza)  With growing independence, measure and mark out to the nearest cm and millimetre (Pizza)  Cut and shape	Use a range of tools and equipment safely. Reinforce knowledge of hygiene procedures	bread+soup)  Learn to use a range of tools and equipment safely and appropriately and follow hygiene procedures (Bread+soup)	Independently take exact measurements and mark out to within 1 millimetre/gram (Fairground rides and pies)  Use a full range of materials and components, including construction materials and mechanical components
make with wood, using the appropriate tools; use measuring cups accurately to make	model.  learn different techniques to assemble, join and combine	tape measure etc).	some degree of accuracy; (Pizza + Sewing)  Assemble, join and	Use a wider range of materials and components, including	Independently take exact measurements and mark out, to within 1 millimetre/gram (Bread+soup)	(Fairground rides)  Cut a range of materials with precision and accuracy (Fairground rides)  Shape and score materials wi
playdo, salt dough and bread.	materials and components.  learn how to effectively cut different materials to create a model	revisit, revise and develop techniques from Year 1.	combine materials with some degree of accuracy; (Pizza + Sewing)  Demonstrate how to measure, cut, shape	construction materials and mechanical components (CAMS)  With growing	Cut a range of materials with precision and accuracy (Sewing)  Assemble, join and combine materials	precision and accuracy;  Assemble, join and combine materials and components with accuracy (Fairground rides)
	or picture (such as a whole class mixed media collage), manipulating fabrics in simple ways.	skilfully demonstrate how to cut, shape and join fabric to make a simple product. manipulate fabrics	and join fabric with some accuracy to make a simple product; (Sewing)  Join fabrics together using simple stitches	independence, measure and mark out to the nearest cm and millimetre (Biscuits and CAMS)	using a range of techniques such as stitching with accuracy (Sewing)  Demonstrate how to measure, make a seam	Refine the finish using techniques to improve the appearance of their product, such as sanding (Fairground rides)

	begin to cut, peel and grate ingredients, including measuring and weighing using measuring cups;  contemplate and consider finishing techniques and simple decorations.	in simple ways to create the desired effect, discussing the most effective technique.  use a basic running stitch.  skilfully cut, peel and grate ingredients, including measuring and weighing using measuring cups.  use simple finishing techniques to improve the appearance of their product, such as adding simple decorations.	such as running stitch and back stitch (Sewing)	Cut, shape and score materials with some degree of accuracy (Biscuits and CAMS)	allowance, tape, pin, cut, shape and join fabric with precision to make a more complex product (Sewing)  Join textiles using a greater variety of stitches, such as backstitch, whip stitch, blanket stitch (Sewing)  Refine the finish using techniques to improve the appearance of their product, such as a more precise scissor cut after roughly cutting out a shape (Sewing)	
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	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year		
	Children can:	Children can:	Children can:	Children can:	Children can:	Children can:	Childr		
E	talk about the differences between materials and changes they notice.	evaluate existing products through class and group discussions.	explore and evaluate existing products through discussions, comparisons and simple	Explore and evaluate existing products, explaining the purpose of the product and whether	Explore and evaluate existing products, explaining the purpose of the product and whether	Complete detailed competitor analysis of other products on the market	Comp comp of oth on the		
A L	talk about what they see, using a widening vocabulary. explore, use and refine a	discuss what materials products are made from.	written evaluations, designing their own format.	it is designed well to meet the intended purpose (Sewing)	it is designed well to meet the intended purpose (CAMS)	Critically evaluate the quality of design,	Critica the qu design and fi		
A T	variety of artistic effects to express their ideas.  return to and build on their previous learning, refining ideas and developing their		discuss and explain positives and areas to improve	Explore materials/ingredients and consider the effectiveness for a specific purpose (Sewing + Pizza)	Explore what materials/ingredients products are made from and suggest reasons for this (Biscuits and CAMS)	manufacture and fitness for purpose of products as they design and make (Sewing)	purpo as the make rides)		
Е	ability to represent them.  through woodwork, think creatively and critically, solve problems and reflect.  create collaboratively, sharing ideas, resources and skills.		for existing products.  discuss and explore what products	Consider their design criteria as they make progress and are willing to alter their plans (Sewing + Pizza)  Evaluate their product against their original design criteria (Sewing + Pizza)	Consider their design criteria as they make progress and are willing to alter their plans, sometimes considering the views of others if this helps them to improve their product (Biscuits and CAMS)	Evaluate their ideas and products against the original design criteria, making changes as needed.	Evaluate their ideas and products against the original design criteria, making	and products against the original design criteria, making	Evalua and p the or criteri chang

talk about their design ideas and what they are making; as they work, start to identify strengths and possible changes they might make to refine their existing design;	are made from.  talk about their design ideas and what they are making;  as they work, start to identify and record strengths and possible changes they might make to refine their existing design. Work collaboratively with peers to review, critique and provide	Evaluate their product against their original design criteria (Biscuits and CAMS)  Evaluate the key events, including technological developments, and designs of individuals in design and technology that have helped shape the world.	
evaluate their products and ideas against their simple design criteria.  discuss how the improvement process sometimes involves repeating different stages of the process.	evaluate their products and ideas against their design criteria.  discuss and start to understand that the improvement process sometimes involves repeating different stages of the process.		



EYFS		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
E program a b successfully the SMART I ipads.  H develop the and then de materials to them.  C choose the rappropriate	things work.  ee-bot and interact with board and  ir own ideas cide which use to express	through a problem solving activity, design and make a model that is fit for purpose (such as a den for an animal).  talk about and start to understand the simple working characteristics of materials and components  explore and create products using a slider mechanism.	build simple structures, exploring how they can be made stronger, stiffer and more stable.  talk about and start to understand the simple working characteristics of materials and components  explore and create products using mechanisms, such as axels and wheels.	Children can: Understand that materials have both functional properties and aesthetic qualities	Children can: Understand that materials have both functional properties and aesthetic qualities  Apply their understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more useful characteristics of products (CAMS)  Explain how mechanical systems such as CAMS, levers and linkages create movement (CAMS)  Use mechanical systems in their products (CAMS)	Children can: Understand that materials have both functional properties and aesthetic qualities	Children can: Apply understanding to strengthen, and reinforce complex struct order to creat useful charact of products  Understand and demonstrate th mechanical and electrical syster an input, proces output (Fairgrot rides)  Explain how mechanical syst create moveme and use mechan systems in their products (Fairgr rides)

			Apply their understanding computing to p monitor and co product (Fairgre rides)



	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Children can:	Children can:	Children can:	Children can:	Children can:	Children can:	Children can:
C	make healthy choices	talk about foods that	explain where in the	start to know when,	understand how	know, explain and give examples of food	know, explain and give examples of food
O	about food and drink.	are grown in the United Kingdom.	world different foods originate from.	where and how food is grown (such as herbs,	to prepare and cook a variety of	that is grown (such as pears, wheat and	that is grown (such as pears, wheat and
О	prepare and cook recipes linked to the relevant	Officed Kingdom.		tomatoes and strawberries) in the	dishes safely and hygienically	potatoes), reared (such as poultry and	potatoes), reared (such as poultry and
K	topic and area of learning.	understand that all food comes from	understand that all food comes from plants or	UK, Europe and the wider world	with support, use a	cattle) and caught (such as fish) in the	cattle) and caught (such as fish) in the
I	talk about the different factors that support their	plants or animals.	animals understand that food has	understand how	heat source to cook ingredients showing	UK, Europe and the wider world	UK, Europe and the wider world
N	overall health and wellbeing including		to be farmed, grown elsewhere (e.g. home) or	to prepare and cook a savoury	awareness of the need to control the	With growing confidence,	understand about
G	healthy eating.		caught.	dish	temperature of the oven	use a heat source to cook ingredients showing awareness of the need to	seasonality, how this affect the food availal and plan recipes
&		name and sort foods into the	name and sort foods into	with support, use a heat source to cook ingredients showing	use a range of techniques such	control the temperature of the hob and/or oven	according to seasonal
α		five groups.	the five groups in the Eatwell Guide.	awareness of the need to control the	as mashing, whisking,	understand about	understand that food is processed into
N		understand that everyone should eat	understand and <b>explain</b>	temperature of the hob oven	crushing, grating, cutting, kneading	seasonality, how this may affect the food availability	ingredients that can be eaten or used in
U		at least five portions of fruit and	why everyone should eat at least five portions of	use a range of	and baking using appropriate cooking utensils	and plan recipes according to seasonality	cooking demonstrate how to
Т		vegetables every day and start to explain why.	fruit and vegetables every day, discuss what a	techniques such as mashing, whisking,	explain that a	understand that food is processed into	prepare and cook a variety of predominantly

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R	portion is and make links to a balanced diet.	crushing, grating, cutting, kneading	healthy diet is made up of a variety and balance of different	ingredients that can be eaten or used in	savoury dishes safely and hygienically
Ι	use what they know	and baking using appropriate	food and drink, as	cooking	including, where appropriate, the use
Т	about the Eatwell Guide to design and prepare	cooking utensils	represented in the Eatwell Guide and	demonstrate how to prepare and cook a	of a heat source
I	dishes.	explain that a healthy diet is made	be able to apply these principles when planning and	variety of predominantly	demonstrate how to use a range of cookin
О		up of a variety and balance of different food and drink, as	cooking dishes	savoury dishes safely and hygienically	techniques, such as griddling, grilling, frying and boiling
N		represented in the Eatwell Guide and be able to apply these principles when planning and cooking dishes  understand that to be active and healthy, nutritious food and drink are needed to provide energy for the body  measure and weigh ingredients to the nearest gram and millilitre  start to independently follow a recipe;	Measure and weigh ingredients to the nearest gram and millilitre  Start to independently follow a recipe.	demonstrate how to use a range of cooking techniques, such as griddling, grilling, frying and boiling  explain that foods contain different substances, such as protein, that are needed for health and be able to apply these principles when planning and preparing dishes  adapt and refine recipes by adding or substituting one or more ingredients to change the appearance, taste, texture and aroma;	explain that foods contain different substances, such as protein, that are needed for health and be able to apply these principles when planning and preparindishes  adapt and refine recip by adding or substitutione or more ingredie to change the appearance, taste, texture and aroma;  alter methods, cooking times and/or temperatures;
					measure accurately a

seasonality.  seasonality.  seasonality.  ingredients or down fro	 	 		
measure accurately and independen			times and/or	calculate ratios of ingredients to scale u or down from a recip
calculate ratios of ingredients to scale up or down from a recipe;  Independently follow a recipe.			ingredients to scale up or down from a recipe; Independently follow a	independently follo recipe.

## Suggested learning, provocations and exploration ~

EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Traditional tales with a twist	Taste different variety	Prepare and taste	Textiles (sewing) -	Mechanical systems -	Textiles (sewing) -	Mechanical systems -
~ opportunities for cooking,	of apples grown in	fruit and vegetables	phone cases	CAMS	stuffed creatures	Fairground rides
designing and construction.	the UK and make	that are not grown in				
	apple juice.	the United Kingdom.	Cooking - Pizza making		Cooking - Bread and soup making	Cooking - pies
Group and individual					Soup making	
woodwork projects.	Cook with different	Plan a 'dragons den'				
	apples.	activity where				
Small groups working in the		children present their				
school kitchen, learning	Group and class	inventions to each				
about the different	collage using a range	other (Junior Dragons				
appliances, finding out	of media.	Den).				
where the food comes from						
and how it is stored,	Moving puppets.	Design a model with				
observing and helping with		axles and wheels.				

lunches.	sessions, building on skills from Reception.	1		
	different appliances, finding out where the food comes from and how it is stored, observing and helping with the preparation of the lunches.	sessions, building on skills from Reception and Year 1.		