End of EYFS Expectations

Creating with Materials

Children at the expected level of development will:

- Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function;
- Share their creations, explaining the process they have used;
- Make use of props and materials when role playing characters in narratives and stories.

Managing Self

Children at the expected level of development will:

- Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.

Fine Motor Skills

Children at the expected level of development will:

- 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;
- Begin to show accuracy and care when drawing.

Nursery and Pre-School (Range 4 and 5)					
Design Make Evaluate	Technical knowledge	Cooking and nutrition			
Predicts, moves and rotates objects to fit the space or create the shape they would like Chooses items based on their shape which are appropriate for the child's purpose Shows awareness of shape similarities and differences between objects Creates their own spatial patterns showing some organisation or regularity Makes simple constructions Responds to and uses language of position and direction Enjoys partitioning and combining shapes to make new shapes with 2D and 3D shapes Attempts to create arches and enclosures when building, using trial and improvement to select blocks Investigates turning and flipping objects in order to make shapes fit and create models; predicting and visualising how they will look (spatial reasoning) Uses pipes, funnels and other tools to carry/ transport water from one place to another Explores differences in size, length, weight and capacity	Manipulates a range of tools and equipment in one hand, tools include paintbrushes, scissors, hairbrushes, toothbrush, scarves or ribbons Uses tools for a purpose	Peeds self competently Develops some independence in self-care and shows an awareness of routines such as handwashing Can wash and can dry hands effectively and understands why this is important Willing to try a range of different textures and tastes and expresses a preference.			

Plays with water to investigate "low technology"	
Experiments with ways to enclose a space, create shapes	
Uses 3D and 2D structures to explore materials and/or to express ideas	
Uses various construction materials, e.g. joining pieces, stacking vertically and horizontally,	
balancing, making enclosures and creating spaces	
balanang, making analosa ana araanng spacos	
Uses available resources to create props or creates imaginary ones to support play	
oses available resources to create props of creates irraginary ones to support play	

Key Vocabulary

cut, fold wall, tower, strong, top, underneath, on top, side, edge, surface, thin, thick, corner, point, straight, curved, metal, wood, plastic, circle, triangle, square, rectangle

fruit and vegetable names, names of equipment and utensils,

Reception (Range 6)				
Design	Make	Evaluate	Technical knowledge	Cooking and nutrition
Select appropriate	Construct with a purpose,	Talk about their likes and	Can manipulate materials to	Can explore taste and talk
resources.	using a variety of resources.	dislikes with their product	create a planned effect	about likes/dislikes
Uses own ideas to make	Use simple tools and	Adapt work where	Can explore a variety of	Eat a range of healthy food
models of increasing	techniques,	necessary. 'It would be	materials and talk about	and begins to understand
complexity, selecting blocks		better if'	their purpose	the need for variety in diet.
needed, solving problems	Build / construct with a wide			
and visualising what they will	range of objects.	Begin to verbally evaluate	Can construct with a	Describes a range of
build		adaptations made	purpose in mind, using a	different food textures and
Use gestures, talking and	Select tools and techniques to shape, assemble and join.	Consider and manage some	variety of resources	taste.
arrangements of materials	To shape, assemble and join.	risks	Can use various construction	Recognise taste and texture
and components to show	Replicate structures with	113K3	materials	can change when cooked.
design.	materials / components.	Practise some appropriate	Triatorials	can change when cooked.
300.g	Discuss how to make an	safety measures	Can construct vertically and	Notices and discuss changes
Use contexts set by the	activity safe and hygienic.	independently	horizontally for a purpose	in food when heated or
teacher and themselves.	, , , , ,	,	, , ,	cooled.
	Record experiences by		Can join construction pieces	
Use language of designing	drawing, writing, voice		together to build and	Begin to understand some
and making (join, build,	recording.		balance	food preparation tools,
				techniques and processes.

shape, longer, shorter,	Understand different media		Can select appropriate	
heavier etc.)	can be combined for a		resources and adapt work	Practise stirring, mixing,
·	purpose		where necessary.	pouring, blending, through
Identify materials needed to				continuous provision.
create a product			Dismantle, examine and talk	·
·			about existing	Discuss how to make an
Draw and label a design			objects/structures	activity safe and hygienic.
				Discuss use of senses.
Explain what product they			Explore moving vehicles	
will be designing and making			through play	Begin to understand the
			G , ,	need for variety in food.
				,
				Can begin to talk about
				where food comes from
				Can use simple tools to
				effect changes to food e.g.
				mash a banana
				Can handle tools, objects
				and malleable materials
				safely and with increasing
				control, e.g. cutting/slicing a
				banana
				Can show some
				understanding of good
				practices with regard to
				exercise, eating and
				hygiene.
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Key Vocabulary

2D shape, 3D shape, flat, smooth, rough, similarities, differences, cut, PVA glue, glue stick, masking tape, sellotape, pencil, lolly sticks, googly eyes, feathers, buttons, sequins, , line, circle, soft ,hard, stamps, stencils, plasticine, clay, repeating, spotted, striped, texture, lighter, darker, lighten, darken, roll, bumpy, squash, squeeze, curved, pattern, straight line, long line, short line, wavy line, zig zag, weaving, collage, materials, fabric, bubble wrap, foam, ribbons, tissue paper, cardboard, cellophane, natural materials, junk modelling, attach cut, fold, join, fix, structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved, metal, wood, plastic, circle, triangle, square, rectangle, cuboid, cube, cylinder, design, make, evaluate

food names, names of equipment and utensils, sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, hard, skin, seed, pip, slicing, peeling, healthy.

End of KS1 National Curriculum Expectations

The national curriculum for design and technology aims to ensure that all pupils:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- critique, evaluate and test their ideas and products and the work of others
- understand and apply the principles of nutrition and learn how to cook.

When designing and making, pupils should be taught to:

Design

- design purposeful, functional, appealing products for themselves and other users based on design criteria
- generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology

Make

• select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] * select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics

Evaluate

- explore and evaluate a range of existing products
- evaluate their ideas and products against design criteria

Technical knowledge

- 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.

Cooking and nutrition

- use the basic principles of a healthy and varied diet to prepare dishes
- understand where food comes from

Year 1				
Design	Make	Evaluate	Technical knowledge	Cooking and nutrition
Generate their own ideas	Explain what they are	Talk about their work, linking	Begin to measure and join	Say where some foods come
explain what they want to	making and why.	it to what they were asked to	materials, with some support.	from, (i.e. plant or animal).
do.		do.		
	Consider what they need to		Describe differences in	Describe differences
Explain the purpose of the	do next.	Talk about existing products	materials suggest ways to	between some food groups
product, and how it will work.		considering: purpose,		(i.e. sweet, vegetable etc.)

	Select tools/equipment to	materials, how they work,	make material/product	
Use pictures and words to	cut, shape, join, finish and	audience, where they might	stronger.	Discuss how fruit and
plan.	explain choices.	be used.		vegetables are healthy.
			Can with help mark out, cut	
Begin to use models.	Measure, mark out, cut and	Talk about existing products,	and shape a range of	Cut, peel and grate safely,
	shape, with support.	and say what is and isn't	materials	with support.
Design a product for myself		good.		
following design criteria.	Choose suitable materials		Can use scissors and a hole	
	and explain choices.	Talk about things that other	punch safely	
Research similar existing		people have made.		
products.	Begin to use finishing		Can apply simple finishing	
	techniques to make product	Begin to talk about what	techniques, painting,	
	look good.	could make product better.	collage, fabric	
	Work in a safe and hygienic		Can recognise which joining	
	manner.		techniques are temporary	
	THAITHOI.		and which are more	
			permanent, e.g. masking	
			tape, blue tack, PVA glue,	
			sewing	
			_	
			Begin to use levers or sliders.	
			Understand the movements	
			of levers and sliders.	1
Key Vocabulary				

Space, diagonal, vertical, horizontal, sewing materials. slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, staples, stapler, pins, pinning, template, fabric, join, pull, push, up, down, straight, curve, forwards, backwards, design, make, evaluate, user, purpose, ideas, design criteria, product, function

cut, fold, join, fix, structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved, metal, wood, plastic, circle, triangle, square, rectangle, cuboid, cube, cylinder, design, make, evaluate, user, purpose, ideas, design criteria, product, function

Year 2				
Design	Make	Evaluate	Technical knowledge	Cooking and nutrition

Generate their own ideas	Explain what they are	Describe what went well,	Measure and cut materials	Explain hygiene and keep a
and plan what to do next.	making and why it fits the purpose.	thinking about design criteria.	with greater independence.	hygienic working area.
Explain what they want to do			Describe some different	Describe the properties of
and describe how they may	Make suggestions as to what	Talk about existing products	characteristics of materials.	ingredients and the
do it.	I need to do next.	considering: purpose,		importance of varied diet.
		materials, how they work,	Join materials in different	
Explain the purpose of the	Join materials/components	audience, where they might	ways use joining, rolling or	Say where food comes from
product, how it will work and how it will be suitable for the	together in different ways.	be used.	folding to make it stronger.	(animal, underground etc.) Describe how food is farmed,
user.	Measure, mark out, cut and	Express personal opinion.	Use own ideas to try to make	home-grown, caught draw
	shape materials and		product stronger.	eat well plate; explain there
Describe the design using	components, with support.	Evaluate how good existing	Can maggire out and soore	are groups of food.
pictures, words, models, diagrams, begin to use ICT.	Describe which tools they are	products are.	Can measure, cut and score	Describe "five a day".
diagrams, begin to use ict.	using and why.	Talk about what they would	with accuracy	Describe live a day .
Design products for myself	osing and why.	do differently if they were to	Can use a template	Cut, peel and grate with
and others following design	Choose suitable materials	do it again and why.	Carrese a femplate	increasing confidence
criteria.	and explain choices	,,,	Can choose and use	9 11 11
	depending on		appropriate finishing	
Choose the best tools and materials, and explain	characteristics.		techniques	
choices.	Use finishing techniques to		Can recognise which joining	
	make product look good.		techniques are temporary	
Use knowledge of existing			and which are more	
products to produce ideas	Work safely and hygienically		permanent, e.g. masking	
			tape, blue tack, PVA glue, sewing and select	
			appropriately.	
		Var. Va a alandam.	<u> </u>	<u> </u>

Key Vocabulary

vertical, horizontal, vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria, functional, sewing, stitch, thread, template, fold, fix, structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved, metal, wood, plastic, circle, triangle, square, rectangle, cuboid, cube, cylinder, design, make, evaluate, user, purpose, ideas, design criteria, product, function, fruit and vegetable

names, names of equipment and utensils, sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard, flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients