



EYFS are not included in this LTP as they learn based on Development Matters and are assessed on the ELGs in June.

	wnat are we	learning in Willow	Class?		
Developing, planning &	Food/Nutrition	Textiles	Construction	Sheet materials	Evaluating
communicating ideas					
Follow verbal instructions.	Develop a food	Colour fabrics	Make vehicles with	Fold, tear and	Say what they like
Explain what they are making and	vocabulary using	using a range of	construction kits,	cut paper and	and do not like about
which materials they are using and	taste, smell, texture	techniques e.g.	which contain free	card.	items they have
why.	and feel.	fabric paints,	running wheels.	Roll paper to	made and attempt to
Name the tools they are using.	Group familiar food	printing, painting.	Use a range of	create tubes.	say why.
Describe what they need to do next.	products e.g. fruit	Cut out shapes,	materials to create	Cut along lines,	Talk about their
Select materials from a limited range	and vegetables.	which have been	models with wheels	straight and	designs as they
that will meet the design criteria.		created by	and axles e.g. tubes,	curved.	develop and identify
		drawing round a	dowel, cotton reels.	Curl paper.	good and bad points.
work with the materials.			Attach wheels to a	Use a hole	Explain how it works.
				punch.	Discuss what other
	•				people have made.
searching the internet together.		fabric.			
			Plan their construction.		
Planning, make.					Planning, make.
		join, decorate			
				stapler, lines.	
Desire investigate avaluate		Latinian and		lain factorian	
					Design, investigate,
purpose.				curved, straight.	evaluate, purpose.
	snarp, crisp, sour.				
		•			
			Chassis		
	PROGRESSION		L-From EVES		
Constructing with a purpose in mind				Using:	Adapts work where
Realising that tools can be used for a					necessary.
					Selects particular
F F					resources.
ļ					Explain what they
	Understanding that				have made.
ļ	we should eat fruit			without	
ļ					
	Follow verbal instructions. Explain what they are making and which materials they are using and why. Name the tools they are using. Describe what they need to do next. Select materials from a limited range	Peveloping, planning & communicating ideas Follow verbal instructions. Explain what they are making and which materials they are using and why. Name the tools they are using. Describe what they need to do next. Select materials from a limited range that will meet the design criteria. Select and name the tools needed to work with the materials. Use both pictures and words to explain their ideas. Look at existing products by searching the internet together. Planning, make. Planning, make. Planning, make. Design, investigate, evaluate, purpose. PROGRESSION Constructing with a purpose in mind. Realising that tools can be used for a purpose. Food/Nutrition Develop a food vocabulary using taste, smell, texture and feel. Group familiar food products e.g. fruit and vegetables. Cut food safely. Understand the need to be hygienic in the kitchen. Think of interesting ways to decorate their produce, such as cakes to make others want it. Names of fruit and vegetables. Flesh, skin, peel, seed, ingredients, healthy, diet. Sensory vocab: sticky, crunchy, sharp, crisp, sour. PROGRESSION Constructing with a purpose in mind. Realising that tools can be used for a purpose. Understanding that	Developing, planning & communicating ideas	Developing, planning & communicating ideas Follow verbal instructions. Explain what they are making and which materials they are using. Describe what they need to do next. Select and name the tools needed to work with the materials. Use both pictures and words to explain their ideas. Look at existing products by searching the internet together. Planning, make. Planning, make. Develop a food vocabulary using taste, smell, texture and feel. Group familiar food products e.g., fruit and vegetables. Cut food safely. Understand the need to be hygienic in the kitchen. Think of interesting ways to decorate their produce, such as cakes to make others want it. Planning, make. Planning, make. Persong Vocab: Sensory vocab: sticky, crunchy, sharp, crisp, sour. PROGRESSION AND SEQUENCING-From EYFS Construction Make vehicles with construction kits, which contain free trunning wheels. Use a range of techniques, which have been created by drawing round a template onto the fabric. Describe the texture of the fabric. Describe the texture of the fabric. Describe the texture of the fabric. Pabric, pattern, join, decorate their product and why. Plan their construction. Cut out shapes, which have been created by drawing round a template onto the fabric. Describe the texture of the	Developing, planning & communicating ideas Follow verbal instructions. Explain what they are making and which materials they are using and why. Name the tools they are using. Describe what they need to do next. Select materials from a limited range that will meet the design criteria. Select and name the tools needed to work with the materials. Use both pictures and words to explain their ideas. Look at existing products by searching the internet together. Planning, make. Name 8. Name to tools they are using. Develop a food vocabulary using taste, smell, leature and feel. Group familiar food products e.g. fruit and vegetables. Cut out shapes, which have been created by drawing round a template onto the fabric. Describe the texture of the explain heir ideas. Look at existing products by searching the internet together. Planning, make. Names of fruit and vegetables. Flesh, skin, peel, seed, ingredients, healthy, diet. Design, investigate, evaluate, purpose. PROGRESSION AND SEQUENCING-From EYFS Constructing with a purpose in mind. Realising that tools can be used for a purpose. PROGRESSION AND SEQUENCING-From EYFS Construction with echicles with construction kits, which construct the running wheels. Use a range of materials. Select and name the tools with wheels and axles e.g., these, doew, catter their product and why. Plan their construction. Particle Products e.g., fruit and vegetables. Plesh, skin, peel, e.g., injuit and vegetables. Plesh, skin, peel, e.g., injuit and vegetables. Plesh





NC Objective	Wha	nt are we learning in	Elm class?			
Select from and use a range of tools and	Developing, planning & communicating ideas	Food	Textiles	Construction	Sheet materials	Evaluating
equipment to perform practical tasks. 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. Build structures, exploring how they can be made stronger, stiffer and more stable. Explore and use in their products.	Explore ideas by rearranging materials. Model ideas with kits, reclaimed materials. Select pictures to help develop ideas. Use pictures and words to convey what they want to design and make. Describe their models and drawings of ideas and intentions. Use kits/reclaimed materials to develop an idea. Use drawings to record ideas as they are developed. Discuss their work as it progresses. Add notes to drawings to help explanations and explain why they are the best.	Cut, grate, chop a range of ingredients. Work safely and hygienically Understand the need for a variety of foods in a diet, 5 main food groups. Measure and weigh food items, non-statutory measures e.g. spoons, cups. Research linking to all food coming from plants and animals. Food has to be farmed, grown or caught.	Join fabrics by using running stitch, glue, staples, over sewing, tape. Decorate fabrics with buttons, beads, sequins, braids, ribbons. Explain why they use a certain textile.	Join appropriately for different materials and situations e.g. glue, tape. Mark out materials to be cut using a template. Cut strip wood/dowel using hacksaw and bench hook. See glue gun used by an adult. Explain why they are using the construction material. Add movement to their models.	Create hinges. Use simple pop ups. Investigate strengthening sheet materials. Investigate joining temporary, fixed and moving. Fold and roll materials to make it stronger.	Talk about changes made during the making process Discuss how closely their finished products meet their design criteria and what they would improve next time. Evaluate existing products.
Tier 2 vocabulary	Investigating, planning, designing.	Names of utensils. Flesh, skin, peel, seed, ingredients, healthy, diet.	Fabric, pattern, join, decorate	Cut, tower, strong, weak, underneath, thick, thin, metal, wood, rectangle, circle, square, wheel.	Fold, roll, materials.	Investigating, planning, designing.
Tier 3 vocabulary	Product, function, criteria, purpose.	Sensory vocab: sticky, crunchy, sharp, crisp, sour.	Joining and finishing techniques, components, template, markout.	Join, fix, structure, framework, surface, edge, cuboid, cylinder, cube, chassis, axle, names of tools.	Shaping, fixed, moving, mechanism, malleable.	Product, function, criteria, purpose.

The class teacher will highlight this LTP as they add it into their MTP to ensure coverage.

Each topic will start with time spent discussing what has previously been learnt and how the current topic will build on previous learning.

Annual Enterprise week allows each class to become a business, researching and making a product to sell at the fete. All profits are then spent by then children.





Select from & use a wider range of tools and equipment to perform practical tasks accurately. Investigate and analyse a range of existing products. Drawisketch products to he one to be made to give starting points for a Design. Drawisketch products to help analyse and understand how products are made. Think ahead about the order of their work and decide upon tools on consider the views of others to improve their work. Understand and use mechanical systems in their products. Decide which design ideas to design ideas to design ideas to design ideas to design ideas. Decide which words and wider world. Using equipment and tools needed. Plan their work using accurately labelled sketch and words. Discussing how realistic it is. Developing, planning & communicating ideas Make healthy eating choices from and understand seam allowance. Join fabrics using running stitch, over set shell or frame structures. Think ahead about the order of their work and decide upon tools and materials. Demonstrate how their design meets a range of requirements. Put together a step by step plan including equipment and tools needed. Plan their work using accurately labelled sketch and words. Discussing how realistic it is. Developing, planning & communicating ideas Make healthy eating choices from and understand seam allowance. Understand is allowance. Understand is seam allowance. Using a computer program to control the product. Explore structures. Sheet materials Cut internal shapes. Use lolly sticks/card to make levers and balance develop. Cons							
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Select from and use a wider range	Developing, planning & communicating ideas	Food	Textiles	Construction/Elec trical	Sheet materials	Evaluating
of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.	Investigate products/images to collect ideas. Sketch and model alternative ideas. Develop one idea in depth. Combine modelling and drawing to refine ideas. Plan the sequence of work using a storyboard. Record ideas using annotated diagrams. Use research to come up with a range of ideas, including user's view. Produce a detailed step by step plan, including alternative ideas and drawbacks about each.	Prepare food products taking into account the properties of ingredients and sensory characteristics. Select and prepare foods for a particular purpose. Taste a range of ingredients, food items to develop a sensory food vocabulary for use when designing. Weigh and measure using scales. How food is processed into ingredients that can be eaten or used in cooking. How foods can be substituted in cooking to change a recipe.	Create 3D products using pattern pieces and seam allowance. Understand pattern layout. Decorate textiles appropriately often before joining components. Pin and tack fabric. Use a range of joining techniques.	Use bradawl to mark hole positions. Use hand drill to drill tight and loose fit holes. Cut strip wood, dowel, square section wood accurately to 1mm. Join materials using appropriate methods. Incorporate motor and a switch into a model to make it more functional. Describe the methods of construction used.	Cut slots. Cut accurately and safely to a marked line. Join and combining materials with temporary, fixed or moving joinings.	Use the design criteria to inform their decisions about ways to proceed. Justify their decisions about materials and methods of construction. Reflect on their work using design criteria stating how well the design fits the needs of the user, aesthetically and userability. Identify what does and does not work in the product. Make suggestions as how their design could be improved.
Tier 2 vocabulary	Design decisions, user, purpose, research.	Wholemeal, unleavened, herbs, spices, whisk, beat, stir, crumble, source.	Template, right side, wrong side, pattern, names of textiles, pins, needles, thread	Stiffen, strengthen, frame structure, reinforce, join.	Fixed, join, slots, move.	Design decisions, user, purpose, research.
Tier 3 vocabulary	Functionality, authentic, specification, mock-up, cross-section, engineering	Fat, carbohydrate, protein, vitamins, minerals, allergy, gluten	Seam, wadding, reinforce, hem, fastenings	stability, temporary, permanent, triangulation.	Temporary, permanent, accurate.	Functionality, authentic, specification, mock-up.

Learn about an engineer who has been influential to our world and how it links to DT.

The class teacher will highlight this LTP as they add it into their MTP to ensure coverage.

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Use research and	Developing, planning &	Food	Textiles	Construction	Sheet materials	Evaluating
develop design	communicating ideas					
criteria to inform the	Plan a sequence of actions	Join and combine a	Use appropriate	Prototype frame	Use linkages to	Consider and explain how
design of	to make a product.	range of ingredients e.g.	decoration	and shell	make movement	the finished product could
innovative,	Record the plan by drawing	snack foods.	techniques e.g.	structures.	larger or more	be improved. Is it
functional,	(labelled sketches) or writing	Work safely and	appliqué(glued or	Measure and mark	varied.	successful?
appealing products	using an ICT program.	hygienically.	simple stitches).	square selection,	Use and explore	Discuss how well the
that are fit for	Develop more than one	Measure and weigh	Create a simple	strip and dowel	complex pop ups.	finished product meets
purpose, aimed at	design or adaptation of an	ingredients	pattern.	accordingly to 1cm.	Create nets.	the design criteria and
particular	initial design.	appropriately.	Understand the	Use glue gun with	Explain how they	how well it meets the
individuals or	Propose realistic suggestions		need for patterns.	close supervision	could join things in	needs the needs of the
groups.	as to how they can achieve		Devise a template.	(one to one).	different ways.	user. Peer evaluation.
	their design ideas. Add notes to drawings to					Peer evaluation.
	help explanations.					
	Take others ideas into					
	account.					
	Design brief, user, appealing.	Ingredients, dough,	Names of fabrics,	Length, width,	Join, net, hard,	Label, design, planning.
Tier 2 vocabulary		yeast, equipment,	zip, button,	breadth, capacity,	stiff, weak, strong.	, 3,1 3
		utensils, grown.	strength,	marking out,	Links.	
		decrisis, grown.	weakness.	joining, assemble,	LITIKO.	
			weakiiess.			
	Concert evaluations	Taskaisusa masist	Footoning finishing	stiff, strong, font.	Assamble	Ductatives in a systima
Tier 3 vocabulary	Sensory evaluations, annotate sketch, innovative,	Techniques, moist,	Fastening, finishing	Shell structure, 3	Assemble,	Prototype, innovative,
Tiel 3 Vocabulaly	prototype.	reared, edible,	techniques, stitch,	dimensional, net,	accuracy, scoring,	annotated sketch
	prototypo.	harvested, processed,	seam.	cube, prism, vertex,	assemble,	
		varied.		scoring, shaping,	laminating, tabs.	
				tabs, adhesives,		
				accuracy, reduce,		
				reuse, recycle,		
				graphics.		
	Lo	arn about an inventor who	a has been influential		v it links to DT	

Learn about an inventor who has been influential to our world and how it links to DT

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NC Objective		What are we le	earning in Oak Class	cycle B?		
Generate, develop, model and	Developing, planning & communicating ideas	Food	Textiles	Construction	Sheet materials	Evaluating
communicate their ideas through discussion, annotated sketches, crosssectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. Understand how key events and individuals in design and technology have helped shape the world. Apply their understanding of computing to program, monitor and control their products.	Use models, kits and drawings to help formulate design ideas. Make prototypes. Research information to inform decisions, using questionnaires, interviews and web based resources. Draw plans, which can be read/followed by someone else. Give a report using correct technical vocabulary. Work within time restraints. Consider culture and society in plans. Draw cross sectional drawings and exploded diagrams.	Cut and shape ingredients using appropriate tools and equipment learnt previously. Join and combine food ingredients appropriately e.g. beating, rubbing in. Understand how seasons affect what food is available.	Join fabrics using over sewing, back stitch, blanket stitch or machine stitching (closer supervision), Combine fabrics to create more useful properties. Make quality products.	Control a model using an ICT control programme. Use a clamp to make an up and down mechanism. Build frameworks using a range of materials e.g. wood, card corrugated plastic to support mechanisms, Use glue gun with close supervision.	Use craft knife, cutting mat and safety ruler under one to one supervision Ensure work is precise and accurate. Hide joints to improve product.	Use the design criteria to inform their decisions about ways to proceed. Justify their decisions about materials and methods of construction. Reflect on their work using design criteria, stating how well the design fits the needs of the user. Identify what does and does not work in the product, inc whether different resources could improve the product. Evaluate how sustainable the products are.
Tier 2 vocabulary	Design decisions, user, purpose, research.	Wholemeal, unleavened, herbs, spices, whisk, beat, stir, crumble, source.	Template, right side, wrong side, pattern, names of textiles, pins, needles, thread	Stiffen, strengthen, frame structure, reinforce, join.	Fixed, join, slots, move.	Design decisions, user, purpose, research.
Tier 3 vocabulary	Functionality, authentic, specification, mock-up, ergonomics, orthographic (drawing from front, end and aerial)	Fat, carbohydrate, protein, vitamins, minerals, allergy, gluten.	Seam, wadding, reinforce, hem, fastenings	stability, temporary, permanent, triangulation.	Temporary, permanent, accurate.	Functionality, authentic, specification, mock-up.

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Class teachers will highlight the following assessment criteria in their assessment spreadsheet document.

Powerful Knowledge and Skills

Yr Gn	
1 1	I can use my own ideas to make something. I can explain to someone else how I want to make my product. I can used different tools and equipment with safety & accuracy (scissors etc) I can describe how something works. I can build a product that moves. I can build a structure that is strong. I can explain which foods are healthy. I can explain how to be safe and hygienic in the kitchen. I can use fabric in my designs.

Yr	
Gp	
2	I can think of an idea and plan what to do next.
_	I can communicate my ideas through my drawings.
	I can used different tools and equipment with safety & accuracy (hacksaw etc)
	I can mark out something using a template.
	I can build a product that has hinges.
	I can explain how I have made my product strong an the methods that I have used.
	I can name at least 3 food groups needed for a healthy diet.
	I can explain whether food comes from an animal, plant or somewhere else.
	I can use running stitch to hold two pieces of fabric together.

Yr Gp	
3/	I can investigate similar products to the one I intend to design for ideas.
3/	I can put together a step by step plan
4	I can make levers and linkages.
-	I can incorporate a circuit with a bulb or buzzer.
a	I can use a computer program to control a product.
а	I can create a shell or frame and make sure it is stable using ideas like struts.
	I can use equipment to chop, mix and spread food.
	I understand which food is caught, reared and grown in the UK and the wider world.
	I can sew using a running stitch, over sewing and back stitch.







Yr	
Gp	
3/	I can use a computing program to plan a product.
3/	I can explain how I would improve my product next time.
4	I can make pop ups in a product.
4	I can use a glue gun with supervision.
b	I can measure, mark and cut dowel or other wood accurately to make a model.
D	I can present a product in an interesting way.
	I can measure and weigh ingredients carefully.
	I can combine a range of ingredients to make a snack.
	I can add decoration to fabric to improve its appearance.

Yr	
Gp	
5	I can sketch alternatives ideas.
3	I can plan a sequence of work using a storyboard.
/	I can combine materials that have temporary, fixed or moving joinings.
/	I can use a range of tools such as bradawls with care and accuracy.
6	I can incorporate a motor and switch into a model to make it more functional.
U	I can describe the methods of construction used.
a	I can prepare similar dishes changing to ingredients slightly to see the difference in taste.
u	I can follow a recipe using scales to weigh the ingredients out.
	I can pin and tack fabric using arrange of joining techniques.

Yr	
Gp	
5	I can make a prototype.
5	I can evaluate how sustainable the products are.
/	I can use a craft knife and cutting mat safely and accurately.
/	I can use a glue gun with supervision.
6	I can use a clamp to make and up/down mechanism.
U	I can use a computer program in my designs/ control.
b	I understand how seasons affect what food is available.
	I can use new methods such as beating and rubbing in to produce something to eat.
	I can make and evaluate a quality product.