



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

NC Objective		What are we le	arning in Willow Cla	iss?		
Design purposeful,	Developing, planning & communicating ideas	Food/Nutrition	Textiles	Construction	Sheet materials	Evaluating
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.	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.	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.	Colour fabrics using a range of techniques e.g. fabric paints, printing, painting. Cut out shapes, which have been created by drawing round a template onto the fabric. Describe the texture of the fabric.	Make vehicles with construction kits, which contain free running wheels. Use a range of materials to create models with wheels and axles e.g. tubes, dowel, cotton reels. Attach wheels to a chassis using an axle Explain how they want to construct their product and why. Plan their construction.	Fold, tear and cut paper and card. Roll paper to create tubes. Cut along lines, straight and curved. Curl paper. Use a hole punch.	Say what they like and do not like abou items they have made and attempt to say why. Talk about their designs as they develop and identify good and bad points Explain how it works Discuss what other people have made.
Tier 2 vocabulary	Planning, make.	Names of fruit and vegetables. Flesh, skin, peel, seed, ingredients, healthy, diet.	Fabric, pattern, join, decorate	Cut, tower, strong, weak, underneath, thick, thin, metal, wood, rectangle, circle, square, wheel,	Masking tape, hole punch, stapler, lines.	Planning, make.
Tier 3 vocabulary	Design, investigate, evaluate, purpose.	Sensory vocab: sticky, crunchy, sharp, crisp, sour.	Joining and finishing techniques, components, template, markout.	Join, fix, structure, framework, surface, edge, cuboid, cylinder, cube, pivot, axle, chassis	Join, fastening, curved, straight.	Design, investigate, evaluate, purpose.
		PROGRESSION	AND SEQUENCING	G-From EYFS		
	Constructing with a purpose in mind.	Making: bird cakes	Threading.	Using various construction materials.	Using:	Adapts work where necessary.





	Fruit kebabs Decorating biscuits. Understanding that we should eat fruit and vegetables and drink water every day.	Sewing-over stitch with support.	Stacking blocks. Beginning to construct.	Scissors to cut straight Stapler (with help) Hole punch without accuracy	Selects particular resources. Explain what they have made.
--	---	----------------------------------	--	--	--

School Based EYFS Assessment - Powerful Knowledge and Skills. DT
I can choose my own materials & equipment.
I can say what I would like to make.
I can use tape and glue.
I can sew using over stitch – with support.
I can plan what I want to make before I start.
l can evaluate my work.
I can use scissors to cut accurately
I can use a painting tool accurately
I can name some fruits and vegetables

NC Objective	What are we learning in Elm	class?				
Select from and use a	Developing, planning &	Food	Textiles	Construction	Sheet materials	Evaluating
range of tools and	communicating ideas					
equipment to perform	Explore ideas by rearranging	Cut, grate, chop a	Join fabrics by	Join appropriately for	Create hinges.	Talk about changes
practical tasks.	materials.	range of	using running	different materials and	Use simple pop	made during the
Select from and use a	Model ideas with kits,	ingredients.	stitch, glue, staples,	situations e.g. glue,	ups.	making process
wide range of materials	reclaimed materials.	Work safely and	over sewing, tape.	tape.	Investigate	Discuss how closely
and components,	Select pictures to help	hygienically	Decorate fabrics	Mark out materials to be	strengthening sheet	their finished
including construction	develop ideas.	Understand the	with buttons,	cut using a template.	materials.	products meet their
materials, textiles and	Use pictures and words to	need for a variety	beads, sequins,	Cut strip wood/dowel	Investigate joining	design criteria and
ingredients, according to	convey what they want to	of foods in a diet,	braids, ribbons.	using hacksaw and	temporary, fixed	what they would
their characteristics.	design and make.	5 main food	Explain why they	bench hook.	and moving.	improve next time.
Evaluate	Describe their models and	groups.	use a certain	See glue gun used by	Fold and roll	Evaluate existing
explore and evaluate a	drawings of ideas and	Measure and	textile.	an adult.	materials to make it	products.
range of existing products	intentions.	weigh food items,		Explain why they are	stronger.	
Evaluate their ideas and	Use kits/reclaimed materials	non-statutory		using the construction		
products against design	to develop an idea.	measures e.g.		material.		
criteria.	Use drawings to record ideas	spoons, cups.		Add movement to their		
Build structures, exploring	as they are developed.	Research linking		models.		
how they can be made	Discuss their work as it	to all food coming				
stronger, stiffer and more	progresses.	from plants and				
stable.	Add notes to drawings to	animals.				
Explore and use in their	help explanations and	Food has to be				
products.	explain why they are the	farmed, grown or				
	best.	caught.		-		
Tier 2 vocabulary	Investigating, planning,	Names of	Fabric, pattern, join,	Cut, tower, strong, weak,	Fold, roll, materials.	Investigating, planning,
	designing.	utensils. Flesh,	decorate	underneath, thick, thin,		designing.
		skin, peel, seed,		metal, wood, rectangle,		
		ingredients,		circle, square, wheel.		
		healthy, diet.				
Tier 3 vocabulary	Product, function, criteria,	Sensory vocab:	Joining and finishing	Join, fix, structure,	Shaping, fixed,	Product, function,
•	purpose.	sticky, crunchy,	techniques,	framework, surface, edge,	moving,	criteria, purpose.
		sharp, crisp, sour.	components,	cuboid, cylinder, cube,	mechanism,	
			template, mark-out.	chassis, axle, names of	malleable.	
			12p	tools.		
	The class teacher	will highlight this L	TP as they add it into	their MTP to ensure cove	rane	

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 the children.





NC Objective		What are we lear		Class cycle A?		
Select from & use a wider range of tools and	Developing, planning & communicating ideas	Food/Nutrition	Textiles	Construction/Electrical	Sheet materials	Evaluating
equipment to perform practical tasks accurately. Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. Understand and use mechanical systems in their products. Understand and use electrical systems in their products.	Investigate similar products to the one to be made to give starting points for a Design. Draw/sketch products to help analyse and understand how products are made. 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.	Make healthy eating choices from and understanding of a balanced diet. Understanding which food is grown, reared and caught in the UK and wider world. Using equipment safely to chop, mix and spread.	Understand seam allowance. Join fabrics using running stitch, over sewing, back stitch. Explore fastenings and recreate some e.g. sew on buttons and make loops. Prototype a product using J cloths.	Incorporate a circuit with a bulb or buzzer into a model including a mechanical component. Using a computer program to control the product. Create shell or frame structures. Strengthen frames with diagonal struts. Make structures more stable by giving them a wide base.	Cut slots. Cut internal shapes. Use lolly sticks/card to make levers and linkages. Join materials together.	Identify the strengths and weaknesses of thei design ideas. Decide which design idea to develop. Consider the views of others, including intended users, to improve their work. Evaluate existing products including how and where and why they are made and the materials used.
Tier 2 vocabulary	Label, design, planning.	Names of utensils.	Names of fabrics, zip, button, strength, weakness.	Length, width, breadth, capacity, marking out, joining, assemble, stiff, strong, font. Switch, diagram, battery, cable, wire.	Join, net, hard, stiff, weak, strong. Links.	Label, design, planning.
Tier 3 vocabulary	Prototype, innovative, annotated sketch	Texture, appearance, preference, greasy, savoury, edible, hygienic, processed, seasonal.	Fastening, finishing techniques, stitch, seam.	Shell structure, 3 dimensional, net, cube, prism, vertex, scoring, shaping, tabs, adhesives, accuracy, reduce, reuse, recycle, graphics. Input, output, electrical systems, circuits. Rotation, transmit. LED, conductor, crocodile clip, light dependent resistor, parallel circuit, components	Assemble, accuracy, scoring, assemble, laminating, tabs, mountain fold (upside down V)	Prototype, innovative, annotated sketch Function

Learn about a manufacturer who has been influential to our world at

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 the children.





NC Objective		What are we lear	ning in Oak Class cy	cle A?		
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	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. Romans 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. Name an engineer.	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.	change a recipe. 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.

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 the children.





NC Objective	Wha	at are we learning In Beec	h Class cycle B?			
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.
	their design ideas.					Peer evaluation.
	Add notes to drawings to					
	help explanations.					
	Take others ideas into					
	account.					
	Knowledge of an inventor.					
Tion O woodhallomy	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.	
		utensils, grown.	strength,	marking out,	Links.	
			weakness.	joining, assemble,		
				stiff, strong, font.		
	Sensory evaluations,	Techniques, moist,	Fastening, finishing	Shell structure, 3	Assemble,	Prototype, innovative,
Tier 3 vocabulary	annotate sketch, innovative,	reared, edible,	techniques, stitch,	dimensional, net,	accuracy, scoring,	annotated sketch
	prototype.	· · · · · · · · · · · · · · · · · · ·	· ·		,	annotated sketch
	,	harvested, processed,	seam.	cube, prism, vertex,	assemble,	
		varied.		scoring, shaping,	laminating, tabs.	
				tabs, adhesives,		
				accuracy, reduce,		
				reuse, recycle,		
				graphics.		
	1.0	arn about an inventor who	a baa baan influentia	<u> </u>	wit links to DT	

Learn about an inventor 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.

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 the children.





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, cross-sectional 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.Binca prayer mats Autumn 1 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. EIC Autumn 1 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 (EIC binca stitch practice then joining fabrics for prayer mat) (closer supervision), Combine fabrics to create more useful properties. Make quality products. Name a designer.	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. (Healthy body child-sized structure)	Use craft knife, cutting mat and safety ruler under one to one supervision - Christmas 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.

Learn about a designer 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.

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 the children.





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

Yr	Powerful knowledge and skills for DT
Gp	
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	Powerful knowledge and skills for DT
Gp	
?	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	Powerful knowledge and skills for DT
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.
-	I can use a glue gun with supervision.
b	I can measure, mark and cut dowel or other wood accurately to make a model.
	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	Powerful knowledge and skills for DT
Gp	
3/	I can investigate similar products to the one I intend to design for ideas.
J	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	Powerful knowledge and skills for DT
Gp	
5	I can sketch alternatives ideas.
5	I can plan a sequence of work using a storyboard.
1	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.
a	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	Powerful knowledge and skills for DT
	I can make a prototype.
5	I can evaluate how sustainable the products are.
1	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.