DT - Curriculum Overview LTP 1-6

Year Grp	FOOD TECHNOLOGY	MECHANISMS	STRUCTURES	TEXTILES	ELECTRICAL SYSTEMS
R	**Making soup**	**Junk modelling**	**Boats**	**Bookmarks**	
	ELG: Speaking: Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary. **ELG: Managing self:** Manage their own basic hygiene and personal needs, including…understanding the importance of healthy food choices **ELG: The Natural World**: Explore the natural world around them, making observations and drawing pictures of animals and plants. **ELG: Fine Motor Skills:** Use a range of small tools, including scissors, paint brushes and cutlery. **ELG: Creating with materials:** Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.	**ELG: Fine Motor Skills**: Use a range of small tools, including scissors, paint brushes and cutlery. **ELG: Creating with Materials:** Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. **ELG: Creating with Materials:** Share their creations, explaining the process they have used.	**ELG: Speaking:** Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary **ELG: Speaking**: Offer explanations for why things might happen. **ELG: The Natural World:** Explore the natural world around them, making observations and drawing pictures of animals and plants	**ELG: Fine Motor Skills:** Use a range of small tools, including scissors, paint brushes and cutlery. **ELG: Creating with materials:** Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.	
1	**Cooking and Nutrition (Smoothies)**	**Wheels and Axles**	**Free Standing Structures**	**Puppets**	
	Which food is not a fruit? What would I use a juicer for? Where do apples grow? Which of these words does not describe taste? Explain how to make a fruit smoothie?	What is the name of this part (axle)? What is the car chassis? How do the wheels spin? What do we mean by the word fix? What does accurate mean? What is wrong with the car?	Why should a structure be stable? Why is it important to test something? How do we make a structure stronger? Can you name a local free standing structure?	What do we mean by joining technique? Which picture shows safety pins? Which method of joining fabric needs drying time? When pinning and stapling be extra careful because.. What is a template? To make a pouch for holding marbles, which joining technique would be best and why?	
2	**A Balanced Diet**	**Fairground Wheel**	**Baby Bear's Chair**	**Pouches**	

	What do we mean by diet? Can you list all the five food groups? What skill should you use for preparing a spring onion? What is a food's appearance? Create a balanced meal using these food ingredients?	What is a mechanism? What is a structure? How does the Ferris Wheel spin? What does the word 'stable' mean? What material is stiff? List the main parts of a Ferris wheel? What are design criteria? What is a survey?	What is a structure? What do we mean by natural, man made and stable? What do we mean by strong, weak and stiff? How can you make something stronger, stiffer or more stable? What is the function of a chair? Why is it important to test something?	Why is it important to tie a knot at the end of your thread? What do we mean by joining technique? What is a template? What is the name of this stitch? What must you do after sewing the final (last) stitch? What is a pouch?	
3	**Eating seasonally**	**Pneumatic toys**	**3 Little Pigs - Houses**		**Electricity Poster**
	Which of these foods is available in June in the UK, strawberries, oranges, bananas or pineapples? What climate zone is the UK in? Which of these best describes the flavour of a potato, sweet, bitter, earthy or fresh? What is meant by the appearance of a dish? What is seasonal food? When a food is brought into another country, it has been...?	What is a mechanism? What is a pneumatic system? What is an exploded diagram? What are thumbnail sketches? Can you name something that you would use to input air for a pneumatic toy?	What do these dwellings have in common and what is different about them? What are the features of a house? What shapes would make the strongest and most stable house? How could you improve the stability of your house? Does your house fulfil the brief?		What is the definition for 'information design'? What is a list of design criteria? Why is it important to write a list of design criteria? What is an electrical system? What is an electrical product? Which circuit component is a battery holder?
4	**Adapting a recipe**		**Roman catapults**	**Fastenings**	
	What do we call the cooking instructions to make a dish? What is meant by adapting a recipe? Who is a target audience? What would you use to weigh flour? What is market research? What do we mean by budget? Explain how you could adapt a given recipe?		What is a list of design criteria? What are aesthetics? What do you call the material on the outside of structures to add protection? What is a product's function? Explain ways to improve the catapult's stability and aesthetics?	What do we mean by threading the needle? What is a fastening? What is fabric? Can you identify applique, blanket stitch and cross stitch? What is an appendage? What improvements / changes would you make to your toy if you made it again?	
5	**Developing a recipe**	**Pop up books**	**Bridges**	**Stuffed Toys**	
	What meat comes from a cow? What does a balanced diet consist of? What are the different coloured chopping boards for when cooking? What is cross-contamination? When does cross contamination happen? Explain the farm to fork process.	What is a design brief? What is a mechanism? What movement do sliders create? What is a prototype? What is meant by input and output? Draw and explain a mechanism needed for the fish to jump into the opposite/adjacent facing tank.	Can you identify a tenon saw and file and their purposes? What is a set square or try square? What are the different types of bridges called? What feature of a truss bridge is designed to distribute its weight evenly? What are material properties?	What do we mean by threading the needle? What is a fastening? What is fabric? Which answer is the correct definition for prototype? Explain why it is important to make a prototype first?	

			What are the material properties of softwood? What is a cutting template used for?		
	Come dine with me		**Playgrounds**	**Waistcoats**	**Security systems**
6	What are the 5 basic food tastes? What is cross-contamination and how does it occur? What do we mean by flavour? What does the word 'reared' in farming mean? In a recipe, what is the method? What is processed food? Why is it important to wash fruit and vegetables? Write a to-do-list to help someone plan a healthy three course meal?		How do you make a structure stronger? Which shape is best used to provide strength? What are landscape features? What is a prototype? What is the purpose of cladding? What are the properties of softwood (pine)? Identify examples of plans, cross sections, front, side, back and aerial view What does modify mean? What are the health and safety rules for wood word tools?	What do we mean by an object's form? What is fabric? What is a template? Can you identify the states of properties of fabric? What do we call material that does not allow water to pass through it? Why is it important to be accurate when measuring? What do we mean by target audience and target client? What do we call the join where two pieces of fabric connect?	What is product analysis? Series circuits only have....? What do we mean by form over function? A buzzer is a circuit component that...? If switched on, when the rod touches the wire it...?