

<u>Medlar – with – Wesham C of E Primary School</u> <u>Design and Technology Yearly Overview and Key Questions</u>



"Children will be inspired to become curious learners, who have the resilience and confidence to succeed in life."

	Autumn	Spring/	Summer		
EYFS	 Expressive Arts and Design ELGs Creating with Materials 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. 				
	Foundational Knowledge Model naming and describing materials. Teach pupils to stretch, squash, roll, tear, scrunch and join materials. Model imaginative construction. • Explain choices of materials and shapes. scissor use and safety Cutting tape safely on and off a cutter The different types of fixing and which to use in different scenarios, including different types of glue and tape Correct use of cutlery Safe use of hole punches, staplers, trowels, hammer, hand drills. hand vice and saw				
Year 1/2 Cycle A	 Mechanisms – How can you make a picture move? Do I know the common uses for sliders? Can I name the different methods to create card sliders? Can I design and make a simple slider product and evaluate its success. Structures – How can you stop a tower from toppling over? Can I define 'a free standing structure'? Am I able to build free standing structures using a range of different materials? 	 Food and Nutrition – How does food affect your senses? How does food affect our senses? Can I explain why coloured food can be healthier? Am I able to peel, chop and grate a selection of vegetables? Am I able to modify food to suit food senses? Understanding Materials – Can you build with bread? How do the different properties of building materials enable them to be used for different purposes? Can I identify, sort and select materials that can be used in construction? How can I combine different materials? 	 Textiles - How can two squares of Jabric keep you warm? What tools will I need for sewing? Can I thread a needle? How do I create a running stitch? Food and Nutrition - Why are vegetables the best? Why is it important to include a range of vegetables in our diet? Can I peel, grate, season and breadcrumb a range of vegetables? 		

Year 1/2	Textiles – How can you repurpose an	Mechanisms – Are bigger wheels	Food and Nutrition – How healthy is		
Cycle B	item of clothing?	always better?	your food?		
	 Can I cut out shapes that have been created 	– What are levers and linkages?	– What is the difference between fresh food and		
	using a template?	 How can levers and linkages change the 	ultra-processed foods?		
	 Am I able to apply a range of sewing techniques? 	direction of a movement?	 How can I shape and form ingredients to make delicious loads? 		
	 How do I cut and join fabric shapes using a 	products?	 Can I use a range of culinary techniques? 		
	template?	– Can I evaluate the success of outcomes?			
		– What improvements would I recommend?	Structures - How strong is a piece of		
	Food and Nutrition – What Does	Understanding Materials Hoursan	paper?		
	Healthy Mean?	Understanding Materials – How Carl	– How can I make paper stronger?		
	 Why are vegetables so important to our health? What are processed lands? 	you waterproof a nat?	- What is 'a load'?		
	 Am I able to prepare a range il vegetables? 	- now currin mougy milleriais to make them waterproof?	stabilitu?		
	 Can I shape and season a bread snack. 	– What is origami?	 Am I able to test and record how much weight 		
		 How can I transform flat paper into a hat? 	paper can hold?		
Vogr 3	Textiles Have can usu make a hox sut	Machanisms Hour can ugu da a lat a			
Tetti 5	of cloth?	worth with little effort?			
	- How can labric be stillened?	What tunes of lowers and linkages are there?			
	 What solutions can I apply to stiffen fabric? 	 What is the key terminology related to levers 			
	_	and linkages?			
	Food and Nutrition – what do we mean	 How can levers and linkages change the 			
	by a balanced diet?	- Can I design and make simplistic lover and			
	 What is meant by the term balanced diet? 	linkage products?			
	 Why are fresh food better? Can I make fruit and user depart? 	– Am I able to evaluate the success. Of outcomes			
	 Carl I make prair and gogar desert? Car I make homemade chips? 	and recommend improvements?			
	 How can I flavour food to increase their sensory qualities? 	- Food and Nutrition - How does lood			
		affect your body and mind?			
		- How can lood allest your body and mind?			
		- Can I propage and comb a range of magtables?			
		- Am I able to neel and arrive a range of			
		vegetables?			
		 How do you add flavour and texture to foods? 			
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Year 4	Food and Nutrition – What's really in	Textiles – How do you keep a tea towel			
	your food?	form slipping off a hook?			
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	 Do I know that processed foods have many added ingredients? Can I make, roll and shape bread dough? How do I make soup? Mechanisms - How many ways are there to open a door? What are the different types of hinges and related terminology? What are the common uses for hinges? Am I able to make a variety of model hinges? Can I make and evaluate hinged products using modelling materials? 	 What functions do different fastenings have? How does a shank provide space between a button and fabric? Can I select appropriate fastenings and attach them to fabrics? Can I make a shank for a button? Structures - Which shapes will give a structure stability? How does a triangle provide stability in a structure? How do structural engineers support architects to ensure structures withstand forces? Can I make triangles to form and join trusses? Am I able to identify the forces that affect structures? 	
Year 5	 Food and Nutrition – Why are our diets so different? What are the main foods and key ingredients from other cultures? How can foods from other cultures be nutritious? Can I make, roll and cook a flatbread? Am I able to prepare a range of vegetables? Can I present food to a high standard? Systems – How can we keep ourselves safe on the road? What technology can be used to program and control a product? Am I able to combine elements of my design knowledge to fulfil a brief? 	Textiles – Which fabric is ideal for creating a functional and hardwearing lunch bag? How can I waterproof cotton fabric? Which fabrics are both functional and hardwearing? How do you use beeswax to waterproof cotton fabric? Can I repurpose a pair of jeans? Food and Nutrition – What can you learn from different cultures' diets? Can eating food from different countries help us to be healthy? Can I roll and shape ingredients? Am I able to slice and ribbon a range of vegetables? Can I stir-fry vegetables?	
Year 6	Food and nutrition – Can Street Food save us? – What are street foods? – Can snacks be good foods to eat? – How do you make a burrito? – Can I make and roll bread dough? – How do you make a savoury pastry? Mechanisms – How do pulleys and gears let you see the world?	 Food and Nutrition – Does food affect the way you feel? What is the difference between slow release and quick release carbohydrates? How can food improve mood and energy levels? Can I dice, slice, peel, grate and cook a range of vegetables? How can I make a sauce and stock? 	

 What are the different types of pulley systems and gears? What are the common uses of pulleys and gears? How can pulleys and gears create simple mechanisms and change direction of movement? Can I design and make a model Ferris wheel powered by gears? Can I evaluate the success of my outcome and recommend any improvements? 	 How can height and colour be used to improve the visual appeal of food? Structures - How strong is a piece of spaghetti? How can guy lines and flying buttresses support structures? Is a short piece of spaghetti stronger? How can I use a flying buttress to support a tower? Can I use appropriate lengths of spaghetti to increase strength and stability? 	
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