

Design Technology at Holywell Primary and Nursery School
Long Term Overview

	Autumn		Spring		Summer	
	1	2	3	4	5	6
Nursery	Explore different materials freely, develop their ideas about how to use them and what to make. Food- talking about the different fruits/vegetables at snack time. Making edible sparklers (concept – melting)		Join different materials including introducing safely using screwdrivers. Food- tasting noodles and prawn crackers (linked to Chinese New Year), melting chocolate (linked to Easter).		Develop their own ideas and then decide which materials to use to express them. Food- making ice-cream, fruit jelly.	
	Ongoing access to design and making opportunities through Continuous Provision in the Construction and Making areas.					
Reception	Key Skill: cutting safely with scissors Taste Ed – seeing, touching and hearing food.	Key Skill: problem solving (jingle bell mazes) Taste Ed – smelling, tasting, seeing, raw and cooked food.	Key skill: think and plan ahead (crossing a river), investigating existing products (creating spinners). Taste Ed – touch (inside and outside), listening and smelling (herbs and memories).	Key skill: articulate ideas (homemade glue) Taste Ed – All the senses, combining tastes.	Key skills: coming up with own ideas (a new chair for Baby Bear), make links between ideas (rocket mice). Food – Gingerbread Men, porridge, pizza cones.	Key skill: problem solving (Can you help Rapunzel get down from the tower safely by herself?) Food- banana lollipops, marmalade sandwiches.
	Ongoing access to design and making opportunities through Continuous Provision in the Construction and Making areas.					

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Year 1	Core discipline: Mechanisms Key concept: Sliders and levers <i>How can you make a picture move?</i>	Core discipline: Structures Key concept: Freestanding structures <i>How can you stop a tower from toppling over?</i>	Core discipline: Food and Nutrition Key concept: Exploring food senses <i>How does food affect your senses?</i>	Core discipline: Understanding Materials Key concept: Selecting materials <i>Can you build with biscuits?</i>	Core discipline: Textiles Key concept: Joining techniques <i>Can you make bunting to decorate your classroom?</i>	Core discipline: Food and Nutrition Key concept: Vitamins in food <i>Why are vegetables the best?</i>
Year 2	Core discipline: Textiles Key concept: Exploring shape using a template <i>Can you make a puppet to help retell a story?</i>	Core discipline: Food and Nutrition Key concept: Nutrients and the body <i>What does healthy mean?</i>	Core discipline: Mechanisms Key concept: Axles and wheels <i>Are bigger wheels always better?</i>	Core discipline: Understanding Materials Key concept: Manipulating materials <i>How can you waterproof a hat?</i>	Core discipline: Food and Nutrition Key concept: Processed food <i>How healthy is your food?</i>	Core discipline: Structures Key concept: Developing strength in structures <i>How strong is a piece of paper?</i>
Year 3	Core discipline: Textiles Key concept: Stiffening and strengthening fabric <i>How can you make a box out of cloth?</i>	Core discipline: Food and Nutrition Key concept: Individual diets <i>What do we mean by a balanced diet?</i>	Core discipline: Mechanisms Key concept: Levers and linkages – mechanical advantage <i>How can you do a lot of work with little effort?</i>	Core discipline: Food and Nutrition Key concept: Food as medicine <i>How does food affect your body and mind?</i>	Core discipline: Systems Key concept: How things are powered <i>How are things powered?</i>	Core discipline: Structures Key concept: Spanning gaps <i>What makes a bridge strong?</i>

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Year 4	Core discipline: Food and Nutrition Key concept: Ultra-processed food <i>What's really in your food?</i>	Core discipline: Mechanisms Key concept: Hinges <i>How many ways are there to open a door?</i>	Core discipline: Textiles Key concept: Fixings and fastenings <i>How do you keep a tea towel from slipping off a hook?</i>	Core discipline: Structures Key concept: Designing structures using a frame to make them stronger and sturdier <i>Which shapes will give a structure stability?</i>	Core discipline: Electrical Systems Key concept: Switches and circuits revisited <i>How useful are switches?</i>	Core discipline: Food and Nutrition Key concept: Benefits of fresh food <i>Is cheap food always worse for you?</i>
Year 5	Core discipline: Food and Nutrition Key concept: Food choices <i>Why are our diets so different?</i>	Core discipline: Systems Key concept: Using technology to design and control <i>How can we keep ourselves safe on the road?</i>	Core discipline: Textiles Key concept: Durability of fabric <i>Which fabric is ideal for creating a functional and hardwearing bag?</i>	Core discipline: Food and Nutrition Key concept: Cultural influences on diet <i>What can you learn from different cultures' diets?</i>	Core discipline: Structures Key concept: Developing structures that are fit for purpose <i>How are frames strengthened, reinforced and made rigid?</i>	Core discipline: Mechanisms Key concept: Pulleys and gears - transferring rotational force <i>How can you lift a car onto a roof?</i>
Year 6	Core discipline: Food and Nutrition Key concept: Multicultural influences on food <i>Can street foods save us?</i>	Core discipline: Mechanisms Key concept: Pulleys and gears – rotary and linear movement <i>How do pulleys and gears let you see the world?</i>	Core discipline: Food and Nutrition Key concept: Food and mood <i>Does food affect the way you feel?</i>	Core discipline: Structures Key concept: Designing structures revisited – combining skills and knowledge <i>How strong is a piece of spaghetti?</i>	Core discipline: Electrical Systems Key concept: Complex switches and circuits <i>Can switches perform more than one function?</i>	Core discipline: Textiles Key concept: Sustainable materials <i>How can you reduce, recycle, repurpose?</i>