
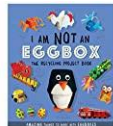

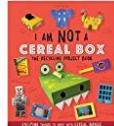


DT overview of units

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS						
EYFS	Food	Structures		Textiles		
	Preparing fruit and vegetables	Freestanding structures		Templates and joining		
	Making Vegetable Soup	STEM-Creating our own houses and structures. Testing out everyday materials.		Creating a rainbow fish: using different joining techniques including sewing.		
	Skills: peeling, chopping. (Linked to harvest time)	Skills: assemble, join (Linked to Once upon a time topic)		Skills: glue, staple, running stitch, hole punch, thread. (Linked to under the sea topic)		
	Other Relating activities		EYFS children have access to junk modelling and creative station all year round. These books are to support and enhance learning in this area:			
Summer 1- Electrical Systems Bee-Bot Programming and algorithm- tinkering (Stem link- All things big and small topic)		   				
Spring 1- Mechanical Systems: STEM- (Family session Making a balloon powered boat						
Key Stage 1						
Year 1	Food	Textiles		Mechanisms		
	Preparing fruit and vegetables	Templates and joining		Wheels and axles		
	Creating a seasonal fruit salad(<i>what is available at this time of the year e.g plums, apples, pears, blackberries etc</i>) for a teddy bears picnic	Puppets (<i>Link in with text for English/science topic on animals and humans</i>)		Creating a vehicle for Mrs Armitage. (<i>link to English text</i>)		
Skills: slicing, juicing, peeling.		Skills: running stitch, pin		(Use TinkerCAD for 3D design and prototyping the body/chase) Introduce Microbit so that each of the vehicles has a design come on at the front? Skills: assemble, cut, join, shape		
Year 2	Structures	Mechanisms		Food		
	Freestanding structures	Sliders and levers		Preparing fruits and vegetables		
	Creating a cathedral (Use TinkerCAD for 3D design and prototyping different structures) Skills: join, cut, fix	Easter themed card with sliders		Healthy salad (vegetables and fruits) e.g Tomatoes, beetroot (grated). Carrots (grated), cucumber, lettuce, rocket etc. (children to grow from seed ingredients to put into their salad.- Different lettuce types, cherry tomatoes, herbs, rocket etc)		

		Skills: slider, lever, fixed and loose pivot, bridge/guide, slot simple mechanisms (straight line, backwards , forwards , round and round, in a curve)	Skills: cutting, slicing, grating, using the oven hob, measuring (liquid).
Key Stage 2			
Year 3 <i>(Art unit on textiles will recap running stitch in preparation for textiles stitching next year in DT)</i>	Mechanical systems	Food	Structures
	Pneumatics	Healthy and varied diet	CAD Shell Structures
	Moving Monsters Skills: pneumatics using syringes. Input and output, 2 or 3 way connector.\	Sandwiches/ Wraps Skills: cutting grating, spreading	Pyramids (Use TechSoft to create 2D shell and add design onto it) Skills: create a CAD net, cut, score, attach/join/assemble
Year 4 <i>Control & CAD</i>	Textiles	Electrical Systems	Food
	2D shape to 3D product	Simple circuits and switches Simple programming and control.(crumble taught in Computing)	Healthy and varied diet
	Pencil cases Skills: Back stitch, backwards running stitch. Over sew stitch, blanket stitch, running stitch. Added Fastening: button	Nightlight/lighthouse - Introduce crumble to the children. Red fern. https://redfernelectronics.co.uk/projects/sparkle-nightlight-project/ Skills: series circuit, switch, fault connection, simple programming and control: input, output, loop control: input, output, loop	Healthy muffin/snack bar Skills: grating, spreading, cutting, mixing, baking, weighing, pouring, mashing, using an oven
	Food	Electrical Systems	Textiles
	Celebrating culture and seasonality	More complex switches And Monitoring and Control	CAD- Combining different fabric shapes

Year 5 <i>Control and CAD</i>	Breads from around the world -Making bread Skills: shaping(braiding, French stick shape etc), mix, weigh, prove(dough), using an oven,	Scanner bot- Use crumble kits for this. https://redfernelectronics.co.uk/projects/scanner-bot-project/ Skills: series circuit, parallel circuit more complex programming: input, output, loops	Gadget case/ holder <i>(xbox/ps controller, tablet, holder for an item on a bike etc)</i> <i>(Use TechSoft to create the templates that the children will use to create and cut there material)</i> Skills: French knot, running stitch, blanket stitch, stem stitch, back stitch.
Year 6 <i>CAD and Control</i>	Food	Structures and Mechanical systems Electrical Systems	
	Celebrating culture and seasonality Pizza (toppings to represent other cultures/ different diets [vegan, vegetarian, pescatarian]) (bring in a slice for your buddy) Skills: press, cut, mix, slice, dice, weigh, mix, prove(dough), shape, blend (using a blender), using an oven.	Frame structures Pulleys and gears Monitoring and Control Fairground rides- Include crumble for lighting into this. Use tinker CAD to design fair ground rides. Add in crumble elements to the fair ground rides- Sparkle lights which flash as it moves around. Skills: measure, saw, join, reinforce, shape, understanding triangulation, mechanical system- gears and pulleys	