	Design and Technology Progression of Vocabulary									
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Mechanism	Balloon powered boats-STEM	Wheels and axils	Sliders and levers	Pneumatics	Levers and Linkages	CAMS	Gears and pulleys			
	Key Vocabulary									
	names of materials used. air, balloon, power, float, sink, waterproof making predictions, design, make, evaluate, improve, redesign	vehicle, wheel, axle, axle holder, chassis, body, cab assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism names of tools, equipment and materials used design, make, evaluate, purpose, user, criteria, functional	slider, lever, pivot, slot, bridge/guide card, masking tape, paper fastener, join pull, push, up, down, straight, curve, forwards, backwards design, make, evaluate, user, purpose, ideas, design criteria, product, function	components, fixing, attaching, tubing, syringe, plunger, split pin, paper fastener pneumatic system, input movement, process, output movement, control, compression, pressure, inflate, deflate, pump, seal, air-tight linear, rotary, oscillating, reciprocating user, purpose, function, prototype, design criteria, innovative, appealing, design brief, research, evaluate, ideas,	mechanism, lever, linkage, pivot, slot, bridge, guide system, input, process, output linear, rotary, oscillating, reciprocating user, purpose, function prototype, design criteria, innovative, appealing, design brief	cam, snail cam, off-centre cam, peg cam, pear shaped cam follower, axle, shaft, crank, handle, housing, framework rotation, rotary motion, oscillating motion, reciprocating motion annotated sketches, exploded diagrams mechanical system, input movement, process, output movement design decisions, functionality, innovation, authentic, user, purpose, design specification, design brief	pulley, drive belt, gear, rotation, spindle, driver, follower, ratio, transmit, axle, motor circuit, switch, circuit diagram annotated drawings, exploded diagrams mechanical system, electrical system, input, process, output design decisions, functionality, innovation, authentic, user, purpose, design specification, design brief			
Structures	STEM- 3 Little Pigs Activity		Freestanding Structures	constraints, investigate Shell (using CAD)			Frame structures			
	Key Vocabulary									

	Everyday materials		cut, fold, join, fix	shell structure,			frame structure,
	that you are using.			three-			stiffen, strengthen,
	Hard , soft, bendy,		structure, wall,	dimensional (3-			reinforce,
	waterproof,		tower,	D) shape, net,			triangulation,
	absorbent,		framework, weak,	cube, cuboid,			stability, shape, join,
	squashy, smooth,		strong, base, top,	prism, vertex,			temporary,
	rough, bumpy,		underneath, side,	edge, face,			permanent
	opaque		edge, surface,	length, width,			ļ ·
	etc.(properties of		thinner, thicker,	breadth, capacity			design brief, design
	materials being		corner, point,	marking out,			specification,
	used.		straight, curved	scoring, shaping,			prototype,
				tabs, adhesives,			annotated sketch,
			metal, wood,	joining,			purpose, user,
	Build, construct,		plastic	assemble,			innovation, research,
	house,			accuracy,			functional
	foundations,		circle, triangle,	material, stiff,			
	architect, builder,		square, rectangle,	strong, reduce,			
	designer.		cuboid, cube,	reuse, recycle,			
			cylinder	corrugating,			
	Stick, glue, cut,			ribbing,			
	join, staple, model,		design, make,	laminating font,			
	structure.		evaluate, user,	lettering, text,			
			purpose, ideas,	graphics,			
	Names of materials		design criteria,	decision,			
	used to join e.g		product, function	evaluating,			
	paper clip,			design brief			
	selotape, hole			design criteria,			
	punch etc.			innovative,			
				prototype			
Textiles	Joining (heroes cape)	Templates and joining			2D shape to 3D product	Combination of fabric shapes	Using Computer Aided Design in
	Templates and						Textiles
	joining						
	(rainbow fish)						
				V V-			
		· · · ·			cabulary	I	
	needle, thread,	names of existing			fabric, names of		computer aided
	stitch(name of	products, joining			fabrics,	reinforce, right side, wrong side, hem,	design (CAD),
	stitch being used),	and finishing			fastening,	template, pattern pieces	computer aided
	join.	techniques, tools,			compartment,		manufacture (CAM)
		fabrics and			zip, button,		font, lettering, text,
		components			structure,		graphics, menu,

	velcro, textile, tape,			finishing	name of textiles and f	astenings used,	scale, modify,
	material, soft, glue,	template, pattern		technique,	pins, needles, thread,	-	repeat, copy, flip
	stick, design, make,	pieces, mark out,		strength,	fastenings, iron transf		design brief, design
	collage, art, create,	join, decorate,		weakness,	<i>5</i> /		criteria, design
	fabric, evaluate	finish		stiffening,	design criteria, annota	ite design	decisions,
				templates,	decisions, functionalit		innovative,
		features,		stitch, seam,	authentic, user, purpo	• • • • • • • • • • • • • • • • • • • •	prototype seam,
		suitable, quality		seam allowance	mock-up, prototype	oc, evaluate,	seam allowance,
		mock-up, design		3carri anowarice	mock-up, prototype		wadding, reinforce,
		brief, design		user, purpose,			right side, wrong
		criteria, make,		design, model,			side, hem, template,
		evaluate, user,		evaluate,			pattern pieces
		purpose, function		prototype,			names of textiles
				annotated			and fastenings used,
				sketch,			pins, needles,
				functional,			thread, pinking
				innovative,			shears, fastenings,
				investigate,			iron transfer paper
				label, drawing,			annotate,
				aesthetics,			functionality,
				function,			innovation,
				pattern pieces			authentic, user,
							purpose, evaluate,
							mock-up, prototype
Electrical systems	Bee-bots and			Simple circuits	More Complex	Monitoring and	
	programming			and switches	switches and	control	
					circuits		
			Key Vo	cabulary			
	program, operate,			series circuit,	series circuit, parallel	reed switch,	
	use, direction			fault,	circuit, names of	toggle switch,	
	(backwards,			connection,	switches and	push-to-make	
	forwards, left,			toggle switch,	components, input	switch, push-	
	right, turn), on, off.			push-to-make	device, output device,	· ·	
	, , , ,			switch, push-to-	system, monitor,	switch, light	
	control, program,			break switch,	control, program,	dependent	
	system, input			battery, battery	flowchart	resistor (LDR),	
	device, output			holder, bulb,		tilt switch	
	,			bulb holder,	function, innovative,	1	
				wire, insulator,	design specification,	light emitting	
				5,5414.61,		diode (LED),	
						aloue (LLD),	

Food	Preparing Fruits and	Preparing Fruit	Preparing Fruit	Healthy Eating	conductor, crocodile clip control, program, system, input device, output device user, purpose, function, prototype, design criteria, innovative, appealing, design brief	design brief, user, purpose Celebrating culture and	bulb, bulb holder, battery, battery holder, USB cable, wire, insulator, conductor, crocodile clip control, program, system, input device, output device, series circuit, parallel circuit function, innovative, design specification, design brief, user, purpose	
Pood	Vegetables (Harvest Soup, Fruit Salad)	and Vegetables	and Vegetables	and Varied Diet		Celebrating culture and	seasonality	
	Key Vocabulary							
	fruit and vegetable names, names of equipment and utensils healthy, sugar, moderation, oral	fruit and vegetable names, names of equipment and utensils	fruit and vegetable names, names of equipment and utensils	name of products, names of equipment, utensils, techniques and ingredients		Ingredients, yeast, doug wholemeal, unleavened spice, herbs fat, sugar, carbohydrate vitamins, nutrients, nut varied, gluten, dairy, all	d, baking soda, e, protein, rition, healthy,	

health, dentist,	sensory	sensory	texture, taste,	intolerance, savoury, source,	
bake, make, cook,	vocabulary e.g.	vocabulary e.g.	sweet, sour, hot,	seasonality	
mix, stir, eat, drink	soft, juicy,	soft, juicy,	spicy,	,	
	crunchy, sweet,	crunchy, sweet,	appearance,	utensils, combine, fold, knead, stir,	
breakfast, lunch,	sticky, smooth,	sticky, smooth,	smell,	pour, mix, rubbing in, whisk, beat, roll	
dinner/tea, snack	sharp, crisp, sour,	sharp, crisp, sour,	preference,	out, shape, sprinkle, crumble	
	hard	hard	greasy, moist,		
			cook, fresh,	design specification, innovative,	
	flesh, skin, seed,	flesh, skin, seed,	savoury	research, evaluate, design brief	
	pip, core, slicing,	pip, core, slicing,			
	peeling, cutting,	peeling, cutting,	hygienic, edible,		
	squeezing,	squeezing,	grown, reared,		
	healthy diet,	healthy diet,	caught, frozen,		
	choosing,	choosing,	tinned,		
	ingredients,	ingredients,	processed,		
	planning,	planning,	seasonal,		
	investigating	investigating	harvested		
	tasting,	tasting, arranging,	healthy/varied		
	arranging,	popular, design,	diet		
	popular, design,	evaluate, criteria			
	evaluate, criteria		planning, design		
			criteria, purpose,		
			user, annotated		
			sketch, sensory		
			evaluations		