

<u>Progression in Design and Technology – The Mill Academy</u>

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
School project 1	Baking bread	Sandwiches and fruit skewers	Superhero Vehicles	Design a meal	Designing and making an Italian dish	Rotating solar System	Design and make an ancient civilisation mask
Topic		Paddington	Superheroes	Archaeology Rocks	Rampaging Romans	Biologists and astrologists unite	Back to the Future
	S/M/E/ <mark>F</mark> /T	S/M/E/ <mark>F</mark> /T	S/ <mark>M</mark> /E/F/T	S/M/E/ <mark>F</mark> /T	S/M/E/ <mark>F</mark> /T	S/ <mark>M</mark> /E/F/T	S/M/E/F/ <mark>T</mark>
School project 2	Access to the art studio, craft techniques, threading, encouraging verbal design, make, construction, lego, small world, through child led experiences	Houses	Building Castles	Layered Rainforest	Musical Instruments	Build an unsinkable ship	Anderson Shelters
Topic	·	The Great Fire of London	Exploring Castles	Maya Mission	Sound and music	Crossing the Atlantic	War of the World Science circuits
		<mark>S</mark> /M/E/F/T	<mark>S</mark> /M/E/F/T	S/M/E/F/T	S/M/E/F/T	<mark>S/M</mark> /E/F/T	<mark>S</mark> /M/ <mark>E/</mark> F/T
School project 3	Access to the art studio, craft techniques, threading, encouraging verbal design, make, construction, lego,	Moving Pictures	Sewing flowers	Magnetic Robots	Up cycling old t- shirts into bags	Making Greek food	Making food using WW2 rations



	small world, through child led experiences							
		S/ <mark>M</mark> /E/F/T	S/M/E/F/T	<mark>S/</mark> M/ <mark>E</mark> /F/T	S/M/E/F/ <mark>T</mark>	S/M/E/ <mark>F</mark> /T	S/M/E/ <mark>F</mark> /T	
Topic		Finding Neverland Pirates/mermaids	The Secret Garden	Mechanoid Magnetism	Save the planet	Zeros to Heroes	War of the World	
Design	- 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			products that are fit for purpose, aimed at particular individuals or groups Generate, develop, model and communicate their ideas through discussion, annotated sketche				
Vocabulary	Idea shape construct build plan, evauate Wood card paper plastic straw, snip, cut, bend, twist, plait,	idea, shape, make, const aim, develop, template, transparent, opaque, wo wheel, wool, decoration, survey	od, plastic, absorbent,	functional, appealing, aesthetic, ergonomic, brief, construction, client, purpose, criteria, usabilit develop, dimension, evaluate, innovate, manufacture, material, modification, modify, process, product, prototype, quality, research, safety, specification, suitable, cross-section, consumer, dismantle, enlarged, exploded drawing, malleable, market research, proportion, circuit, friction, force, linear, linkage, pulleys, resistance, questionnaire				



School Specific		Idea, shape, make, construct, purpose, template, use, appearance, transparent, opaque, wood, plastic, absorbent, decoration, pattern,	Customer, aim, develop, wheel, wool, style, lever, survey	Appealing, brief, construction, client, purpose, criteria, develop, evaluate, material, modify, research, safety, pulleys,	Suitable, enlarged, market research, proportion, circuit, questionnaire	Functional, usability, dimension, innovate, manufacture, modification, process, product, quality, specification, consumer, exploded drawing, malleable, friction, force, resistance,	Aesthetic, ergonomic, prototype, cross section, dismantle, linear,	
Make	- 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;	Select from and use a rar equipment to perform prexample, cutting, shaping Select from and use a wiccomponents, including cottextiles and ingredients, characteristics	actical tasks [for g, joining and finishing] de range of materials and onstruction materials,	select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately Select from and use a wider range of materials and components, including construction				
		equipment, tools, saw, co material, sew, glue, attac joint, scissors, screwdrive	ch, stable, axle, glue gun,					
School Specific		Equipment, tools, cut, join, finish, construct,	Saw, sew, axle, joint, screwdriver	Glue, strengthening, right angle,	Hammer, laminate,	Hinges, assemble, adhesive, dowel, glass	Carpentry, timber, grain, screw, nails,	

Commented [KG1]:



	material, glue, attach, stable, glue gun, scissors, ruler				paper, coping saw, acrylic	chisel, bench hook, smoothing plane, knot, hacksaw	
Evaluate their ideas and products against design criteria			Investigate and analyse a range of existing products Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work Understand how key events and individuals in design and technology have helped shape the world evaluate, illustrate, critical, analyse				
School Specific Review, improve			Expected to be taught all year groups				
Technical Knowledge	Build structures, explorir stronger, stiffer and mor Explore and use mechan sliders, wheels and axles	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] Apply their understanding of computing to program, monitor and control their products					
	Levers, sliders, wheels, a stiffer, stable, reinforce,	xles, structures, stronger, mechanisms	Reinforces, gears, cams				
School Specific	Stronger,	Levers, sliders, wheels, axles, structures, stiffer, stable, reinforce, mechanisms.	Reinforces,	Levers, pulleys, linkages, cams, gears	Series circuit,	complex	
Cooking & Nutrition.	Use the basic principles of diet to prepare dishes Understand where food	Understand and apply the principles of a healthy and varied diet Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniqu Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.					



	texture, smell, s techniques, cho weigh, safety, h caught, grown, s increments, pre	fruit, vegetable, healthy, portion, look, taste, texture, smell, size, shape, colour, ingredients, techniques, chopping, peeling, grating, measure, weigh, safety, hygiene, non-standard, farmed, caught, grown, standard measures, labelled increments, prepare, cook, recipe, consistency, heat source, sweet, savoury, recipe		accompaniments, calories, energy, savoury, garnish, diet, variety, carbohydrate, protein, dairy, fat, vitamin, mineral, crumbly, crunchy, greasy, creamy, gooey, moist, mushy, slicing, mixing, spreading, kneading, baking, raw, starchy, stodgy, cubing, creaming, melting, boiling, simmering, seasonality, sensory characteristics, zest. Source, grown, reared, caught, processed, organic, vegetarian, vegan, pescatarian, sustainability, allergies, intolerance, free range.			
School Specific	fruit, vegetable, healthy, , look, t texture, smell, s shape, colour, ingredients, techniques, cho peeling, , measu weigh, safety, h non-standard, fa , grown, , prepai cook, recipe, , h sweet, savoury,	caught, grown, standard measures, labelled increments, prepare, cook, recipe, consistency, heat source, recipe re, griene, armed, re, eat,	Energy, savoury, diet, variety, melting, boiling, simmering, source, grown,	carbohydrate, protein, dairy, fat, vitamin, mineral, crumbly, crunchy, greasy, creamy, gooey, moist, mushy, slicing, mixing, spreading, raw, reared, caught, allergies, kneading, baking	Accompaniments, calories, garnish, cubing, sensory characteristics, zest, processed, organic, vegetarian, vegan, pescatarian, intolerance, free range	starchy, stodgy, creaming, sustainability,	