



Progression in Design and Technology – The Mill Academy

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Design	<p>Use what they have learnt about media and materials in original ways, thinking about uses and purposes.</p> <p>Represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role play and stories.</p>	<p>Design purposeful, functional, appealing products for themselves and other users based on design criteria</p> <p>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p>		<p>Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</p> <p>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</p>			
Vocabulary	<p>Idea shape construct build plan Wood card paper plastic straw</p>	<p>idea, shape, make, construct, purpose, customer, aim, develop, template, use, appearance, transparent, opaque, wood, plastic, absorbent, wheel, wool, decoration, pattern, style, lever, survey</p>		<p>functional, appealing, aesthetic, ergonomic, brief, construction, client, purpose, criteria, usability, 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</p>			
School Specific		<p>Idea, shape, make, construct, purpose, template, use, appearance, transparent, opaque, wood, plastic,</p>	<p>Customer, aim, develop, wheel, wool, style, lever, survey</p>	<p>Appealing, brief, construction, client, purpose, criteria, develop, evaluate, material, modify, research, safety, pulleys,</p>	<p>Suitable, enlarged, market research, proportion, circuit, questionnaire</p>	<p>Functional, usability, dimension, innovate, manufacture, modification, process, product, quality, specification, consumer, exploded</p>	<p>Aesthetic, ergonomic, prototype, cross section, dismantle, linear,</p>



		absorbent, decoration, pattern,				drawing, malleable, friction, force, resistance,	
Make		Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics		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 materials, textiles and ingredients, according to their functional properties and aesthetic qualities			
		equipment, tools, saw, cut, join, finish, construct, material, sew, glue, attach, stable, axle, glue gun, joint, scissors, screwdriver, ruler.		carpentry, timber, grain, screw, nails, glue, hinges, chisel, hammer, bench hook, glass paper, smoothing plane, knot, strengthening, right angle, assemble, adhesive, acrylic, dowel, laminate, coping saw,			
School Specific		Equipment, tools, cut, join, finish, construct, material, glue, attach, stable, glue gun, scissors, ruler	Saw, sew, axle, joint, screwdriver	Glue, strengthening, right angle,	Hammer, laminate,	Hinges, assemble, adhesive, dowel, glass paper, coping saw, acrylic	Carpentry, timber, grain, screw, nails, chisel, bench hook, smoothing plane, knot, hacksaw
Evaluate		Explore and evaluate a range of existing products 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			
		review, improve,		evaluate, illustrate, critical, analyse			
School Specific		Review, improve		Expected to be taught all year groups			
Technical Knowledge		Build structures, exploring how they can be made stronger, stiffer and more stable		Apply their understanding of how to strengthen, stiffen and reinforce more complex structures			



		Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.		<p>Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</p> <p>Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</p> <p>Apply their understanding of computing to program, monitor and control their products</p>			
		Levers, sliders, wheels, axles, structures, stronger, stiffer, stable, reinforce, mechanisms		Reinforces, gears, cams, linkages, pulleys, levers, complex, series circuit.			
School Specific		Stronger,	Levers, sliders, wheels, axles, structures, stiffer, stable, reinforce, mechanisms.	Reinforces,	Levers, pulleys, linkages, cams, gears	Series circuit,	complex
Cooking & Nutrition.		<p>Use the basic principles of a healthy and varied diet to prepare dishes</p> <p>Understand where food comes from.</p>		<p>Understand and apply the principles of a healthy and varied diet</p> <p>Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.</p> <p>Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</p>			
		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		<p>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.</p> <p>Source, grown, reared, caught, processed, organic, vegetarian, vegan, pescatarian, sustainability, allergies, intolerance, free range.</p>			
School Specific		fruit, vegetable, healthy, look, taste, texture, smell, size, shape, colour, ingredients, techniques, chopping, peeling, measure, weigh, safety, hygiene,	portion, grating, caught, grown, standard measures, labelled increments, prepare, cook, recipe, consistency, heat source, recipe	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,	Accompaniments, calories, garnish, cubing, sensory characteristics, zest, processed, organic, vegetarian, vegan, pescatarian,	starchy, stodgy, creaming, sustainability,



		non-standard, farmed, , grown, , prepare, cook, recipe, , heat, sweet, savoury, recipe			reared, caught, allergies, kneading, baking	intolerance, free range	
--	--	---	--	--	---	----------------------------	--