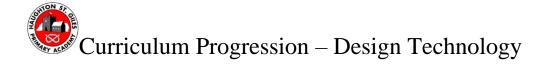
	Reception	Year 1	Year 2	End of Key	Year 3	Year 4	Year 5	Year 6	End of Key
	(PD & EAD)			stage NC					stage NC
				expectation					expectation
Design	I can select construction resources to create an intended idea for imaginative play.  I can create items from stories and props for role play using a variety of materials.  I can create a simple design idea based on existing products.	I can draw and I sketch to show intention.  I can create a de existing product.  Through discuss suggest ideas, d design ideas and plan to make m.  I can generate a meets set criter audience.  I can design a profunctional, appears to show my design ideas.	esign based on ts.  sion, I can evelop my dexplain how I y product.  design that ia for a target ealing product.	Design purposeful, functional, appealing products for themselves and other users based on design criteria  Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology	I can use my existing prod own design.  I can make ch design based given.  I can develop how I will materials I w my product.  I can design appealing profor purpose.	n different angles design intention.  analysis of ucts to inform my nanges to my on feedback  a clear plan for ke my product.  earch to develop a to meet an rpose.  e equipment and ill need to create  a functional, oduct that is fit	and exploded clearly show r  I can research products and market resear findings to inf specification.  I can develop changes wher a clear plan for make my products and design idea to design specification in the specific select a final of my evaluation.  I can design a functional, apthat is fit for public select compute the specific select is fit for public select in the specific select is fit for public select in the specific select is fit for public select in the specific sele	cross-sectional diagrams to my design.  n existing conduct rich and use my form a design  and make re necessary to or how I will duct.  nore than one of meet my cation and design based on and feedback.  In innovative, spealing product ourpose.  puter-aided appropriate to	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  generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design

Technical Knowledge	I can observe features of subjects and their positions.  I can construct with a purpose, using techniques, tools	I can suggest ways to make a product stronger, stiffer and more stable.  I know what a mechanism is and the part that levers. pivots, wheels, axles and chassis play in	<ul> <li>build structures,         exploring how they can         be made stronger,         stiffer and more stable</li> <li>explore and use         mechanisms [for         example, levers,</li> </ul>	help show my design intention.  I can test my design ideas through making simple prototypes when appropriate. I can suggest materials and techniques that could be used to strengthen and stabilise a structure.  I know what a pneumatic system is and how they are	I can test my design ideas through creating prototypes and pattern pieces.  I can suggest materials and techniques that could be used to strengthen and stabilise more complex structures.  I know the difference	<ul> <li>apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>understand and use mechanical systems in</li> </ul>
	and manipulating materials to achieve a planned effect.	them.	sliders, wheels and axles], in their products.	used in products.  I know what a series circuit is and the function of batteries, switches, bulbs, buzzers and motors.	between series and parallel circuits and the function of batteries, switches, bulbs, buzzers, motors and solar cells.  I know how changes can be made to wheels, axles and chassis to impact the function of the product.  I know how to use ICT to program, monitor and control products.	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.



Make	I can progress	I can explore how structures can	♣ select from and use	I can use materials and	I can use materials and	♣ select from and use a
	towards a more	be made stronger, stiffer and	a range of tools and	techniques to strengthen and	techniques to strengthen and	wider range of tools and
	fluent style of	more stable.	equipment to perform	stabilise a structure.	stabilise more complex	equipment to perform
	moving, with		practical tasks [for		structures.	practical tasks [for
	developing control.	I can explore and construct a	example, cutting,	I can create a moving model		example, cutting,
		sliding mechanism, a lever and	shaping, joining and	using a pneumatic system.	I can create movement in my	shaping, joining and
	I can develop small	pivot mechanism and a wheel	finishing] & select from	,	product through transferring	finishing], accurately
	motor skills to use a	mechanism to create a moving	and use a wide range	I can create a product with a	motion	select from and use a
	range of	picture.	of materials and	complete circuit that includes		wider range of materials
	tools competently,		components, including	either bulbs, buzzers or	I can create a product with a	and components,
	safely and	I can explore and construct a	construction materials,	motors.	complete circuit made from	including construction
	confidently.	moving model with wheels,	textiles and		a range of electrical	materials,
		axles and chassis.	ingredients, according	I can use a wide range of tools	components, including bulbs,	
	I can use core		to their characteristics	and equipment to perform	buzzers, motors, switches	
	muscle strength to	I can cut and sew textiles.		practical tasks (e.g. cutting,	and solar cells.	
	achieve good			shaping, joining and finishing)		
	posture	I can join materials effectively.		accurately.	I can cut, sew, join and	
	when sitting at a				reinforce textiles using a	
	table or sitting on	I can use a range of tools and		I can select materials and	range of different stitches.	
	the floor.	equipment to perform practical		components, including		
		tasks (e.g. cutting, shaping,		construction materials,	I can use pattern pieces to	
	I can experiment	joining and finishing).		textiles and ingredients,	create a final product.	
	with a range of			according to their functional		
	tools.	I can select materials and		and aesthetic qualities.	I can hem, finish and	
		components, including			decorate a textile product,	
	I can experiment	construction materials, textiles		I can follow a step-by-step	considering its aesthetic	
	with a range of	and ingredients, according to		plan, choosing the right	qualities.	
	media, including	their characteristics.		equipment and materials.		
	pencil, collage,			_	I can explore and construct a	
	chalk and paint.			I can program my product	more complex moving model	
	<u> </u>			using computing	with wheels, axles and	
	I can use shapes				chassis, making changes to	
	and colours to				improve the product's	
	represent an				function.	
	object.					

	I can construct with a purpose, using techniques, tools and manipulating materials to achieve a planned effect.				I can program, monitor and control my product using computing.	
Evaluate	I can explore with colour and see what happens when I mix colours.  I can share my creations, explaining the process they have used.  I can return to and build on previous	I can evaluate my product against set design criteria, explaining strengths and weaknesses.  I can explore and evaluate existing products and how they work.	* explore and evaluate a range of existing products * evaluate their ideas and products against design criteria	I can evaluate my product against the design criteria I developed, explaining strengths and weaknesses.  I can test my product in different ways to evaluate how fit it is for purpose.  I can use feedback to evaluate my design before and during its creation.	I can evaluate my product against the design specification I developed, explaining strengths and weaknesses and potential adaptations  I can seek evaluation from others through developing questionnaires and surveys and tests to be conducted.  I can use feedback to evaluate and make changes	<ul> <li>investigate and analyse a range of existing products</li> <li>evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>understand how key</li> </ul>

	learning, refining ideas and develop my ability to represent them.			I can investigate and analyse a range of existing products, explaining how they would meet the design criteria.  I can understand how key events and individuals in design and technology have helped shape the world.	to my design throughout the different stages of its development and creation.  I can investigate and analyse a range of existing products through disassembly and explain how they would meet the design specification.  I can understand how key events and individuals in design and technology have helped shape the world and apply some of the principles in my design.	
Food and Nutrition	I can create a simple design idea based on existing products.  I can construct with a purpose, using techniques, tools and manipulating materials to achieve a planned effect.  I can develop small motor skills to use a range of	I can test flavours, textures and colours of different foods.  I can use the basic principles of a healthy and varied diet to prepare a dish.  I can explain where different types of food come from.  I can use cutting, grating and peeling to prepare fruit and vegetables.  I can prepare food hygienically.	<ul> <li>♣ use the basic principles of a healthy and varied diet to prepare dishes</li> <li>♣ understand where food comes from.</li> </ul>	I can test and compare flavours, textures and the appearance of different foods.  I can explain why certain foods are in season at different times of the year and why it is good to eat seasonal food.  I can include seasonal food in dishes I prepare.  I can explain where and how a variety of ingredients are grown, reared, caught and processed.	I can test and compare flavours, textures and the appearance of different foods against my own set criteria.  I can compare sweet and savoury dishes by their nutritional value.  I can explain how cuisines from other countries have influenced what is eaten in Britain today.	* 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 techniques * understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

	tools competently, safely and confidently.  I can construct with a purpose, using techniques, tools and manipulating materials to achieve a planned effect.  I can share my creations, explaining the process they have used.  I can return to and build on previous learning, refining ideas and develop my ability to represent them.		I can use a range of cooking tools to cut, grate and peel fruit and vegetables in different ways.  I can consider different food groups needed for a healthy, balanced diet when preparing a dish.	I can consider a range of flavours, textures and appearances to create a dish.  I can create a dish through baking.  I can measure out quantities of ingredients given in a recipe.  I can combine ingredients through pouring, sieving, folding, whisking and stirring.	
Key Vocabulary		Mechanisms: Up, down, left, right, vertical, horizontal, slider, lever, pivot, fulcrum, wheel, mechanism, safety, design criteria, ferris wheel, pods, axle, axle holder, frame, rotates, masking tape,  Textiles: fabric, join, template, pinning, gluing, stapling, running	Digital World: Smart wearables, product design, digital revolution, technology, analogue, digital, feature, function, digital world, micro:bit, Food & Nutrition: sift/sieve, fold, dough, flavour, texture, mix, appeal, budgeting, packaging,	Structure: Cladding, apparatus, playground, reinforce, construction, monkey bars, A-frame, climbing wall, seesaw, playhouse, swing, Mechanical Systems: axle, bench hook, clamp, component, dowel, finish, frame, function, linkage,	

stitch, blanket stich, safety pin	,	Electrical systems: insulator,	Electrical systems:	
fabric glue, technique,		conductor, LED, battery, coin	backboard, battery, bulb,	
Food & Nutrition: fruit,		cell batteries, wire, switch,	buzzer, circuit, conductor,	
vegetables, stem, leaves, root,		housing, reflector, circuit,	insulator, copper, LED,	
taste, texture, smell,		bulb, split pin, paper clip,	magnetic field, pliers, series	
appearance, slice, grate, blenc	,	Textiles: fabric, running stitch,	circuit, switch,	
knife, balanced diet, ingredien	ts,	fastening, Velcro, press stud,	Food & Nutrition: seasonal,	
protein, sugar, flavour, food		zip, buckle, button, hook and	seasons, climate, balanced	
hygiene		eye, template, model,	diet, food groups, grown,	
Structures: man-made, natura	l,	prototype,	caught, reared, processed,	
properties, 2D shape, 3D shap	e,	Structures: 3D shape, 2D net,	contamination, hygiene,	
structure, test, strengthen,		crease, fold, tab, score,	recipe, soup, boil, simmer,	
stabilse, adapt, pipe cleaners,		stability, strengthen, stiffen,	blend,	
straws,		adapt, facade, Mechanical	Textiles: fabric, running	
		systems: compressed, input,	stitch, cross-stitch, applique,	
		output, pivot, pneumatic	template, model, stuffed toy,	
		tubing, balloon, hinge, syringe,	prototype, pattern pieces	
		housing		Í