DENHAM GREEN E-ACT PRIMARY ACADEMY CURRICULUM PROGRESSION MAP: DESIGN & TECHNOLOGY

	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6
Design	Can I think of some ideas of my own? Can I explain what I want to do? Can I describe my design by using pictures, model mock-ups and words? Can I design a product for myself and others following design criteria	Can I think of ideas and plan what to do next? Can I choose the best tools and materials? Can I give a reason why these are best tools or materials? Can I describe my design by using pictures, diagrams, model mock-ups, words and ICT? Can I design a product for others following design criteria?	Can I show that my design meets a range of requirements? Can I put together a step-by-step plan which shows the order and also what equipment and tools I need? Can I describe my design using an accurately labelled sketch and words? Can I say how realistic my plan is? Can I take account of the ideas of others when designing?	Can I come up with at least one idea about how to create my product? Can I take account of the ideas of others when designing? Can I produce a plan and explain it to others? Can I suggest some improvements and say what was good and not so good about my original design?	Can I come up with a range of ideas after I have collected information? Can I take a user's view into account when designing? Can I produce a detailed step-by-step plan? Can I suggest some alternative plans and say what the good points and drawbacks are about each? Can I use cross sectional planning to show my design? Can I produce prototypes to show my ideas?	Can I use a range of information to inform my design? Can I use market research to inform plans? Can I work within constraints? Can I follow and refine my plan if necessary? Can I justify my plan to someone else? Do I consider culture and society in my designs? Can I use exploded diagrams to show my designs? Can I use computer aided designs to show my ideas?
Make	Can I explain what I am making and why? Can I select tools and equipment to cut, shape, join and finish? Can I describe which tools I am using and why? Can I choose materials and explain why they are being used?	Can I explain what I am making and why my audience will like it? Can I join things (materials/ components) together in different ways? Can I choose materials and explain why they are being used depending on their characteristics?	Can I use equipment and tools accurately? Can I tell if my finished product is going to be good quality?	Can I show I am conscience of the need to produce something that will be liked by others? Can I show a good level of expertise when using a range of tools and equipment? Can I explain how my product will appeal to the audience? Can I use a range of tools and equipment expertly?	Can I explain why my finished product is going to be of good quality? Can I explain how my product will appeal to the audience? Can I use a range of tools and equipment expertly? Can I think about the aesthetic qualities of my work? Can I think about the functionality of my work?	Can I use tools and materials precisely? Do I change the way I am working if needed? Can I think about the aesthetic qualities of my work? Can I think about the functionality of my work?

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Evaluate	Can I describe how existing products work? Can I talk about my own work linked to what I was asked to do? Can I talk about my own work and things that other people have done?	Can I describe what went well with my work? Can I evaluate what I would do differently if I did it again and why? Can I judge my work against the design criteria?	Have I thought of how I will check if my design is successful? Can I begin to explain how I can improve my original design? Can I practise my evaluation skills by evaluating existing products?	Can I begin to explain how I can improve my original design? Can I evaluate my product, thinking of both appearance and the way it works? Can I practise my evaluation skills by evaluating existing products against set criteria?	Do I keep checking that my design is the best it can be? Can I check whether anything could be improved? Can I evaluate appearance and function against the original criteria? Can I test and evaluate my final product? Can I say if my product is fit for purpose? Can I practise my evaluation skills by evaluating existing products against criteria which I have set?	Can I test and evaluate my final product? Can I say if my product is fit for purpose? Can I evaluate what would improve it? Can I evaluate if different resources would have improved my product? Can I say if I would need more or different information to make it even better? Can I practise my evaluation skills by evaluating existing products against criteria which I have set?
Technical knowledge	Use of materials: Can I measure materials to use in a model or structure? Can I join material in different ways? Can I use joining, folding or rolling to make it stronger? Can I use levers or slides in my work? Cooking and nutrition: Can I describe the properties of the ingredients I am using and why it is important to be varied in my diet? Can I explain what it means to be hygienic?	Mechanisms: Can I join materials together as part of a moving product? Can I add a specific design to my product? Can I use axels and wheels in my work? Cooking and nutrition: Can I describe the properties of the ingredients I am using and why it is important to be varied in my diet? Can I explain what it means to be hygienic? Can I keep a hygienic kitchen? Can I say where food comes from i.e. animals, underground, over ground etc?	Stiff and flexible sheet materials: Can I use the most appropriate materials? Can I work accurately to make cuts and holes? Can I join materials? Electrical & mechanical components: Can I select the most appropriate tools and techniques to use for a given task? Can I make a product which uses both electrical and	Stiff and flexible sheet materials: Can I measure carefully so as to make sure I have not made mistakes? Can I attempt to make my product strong? Cooking and nutrition: Can I describe what I do to be both hygienic and safe? Can I present my product well? Mouldable materials: Can I take time to consider how I could have made my idea better? Can I work at my product even though their original idea might not have worked?	Electrical & mechanical components: Can I incorporate a switch into my product? Can I refine my product after testing it? Can I incorporate hydraulics and pneumatics? Can I use different kinds of circuit in my product? Can I think of ways in which adding a circuit would improve my product? Mouldable materials: Can I consider the use of the product when selecting materials? Can I say how my product	YEAR 6 Textiles: Can I think what the user would want when choosing textiles? Can I make my product attractive and strong? Can I make up a prototype first? Can I use a range of joining techniques? Can I think about how my product could be sold? Can I give considered thought about what would improve my product even more? Electrical and mechanical components: Can I use different kinds of circuit in my

	Can I keep a hygienic kitchen? Can I say where food comes from i.e. animals, underground, over ground etc?	Textiles: Can I measure textiles? Can I join textiles together to make something? Can I cut textiles? Can I explain why they chose a certain textile?	mechanical components? Can I use a simple circuit? Can I use a number of components? Can I add things to my circuits? How have I altered my product after checking it? Can I be confident about trying out new and different ideas?	Electrical & mechanical components: Can I select the most appropriate tools and techniques to use for a given task? Can I make a product which uses both electrical and mechanical components? Can I use a simple circuit? Can I use a number of components? Can I add things to my circuits? How have I altered my product after checking it? Can I be confident about trying out new and different ideas?	meet all design criteria? Stiff and flexible sheet materials: Can I measure accurately enough to ensure that everything is precise? Can I ensure that my product is strong and fit for purpose?	product? Can I think of ways in which adding a circuit would improve my product? Mouldable materials: Can I consider the use of the product when selecting materials? Can I say if my product meet all design criteria? Cooking and Nutrition 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
Vocabulary	Creative Practical Designing Making Evaluating Purposeful Functional Appealing Product Design criteria Generate Develop Model Communicate		Creative Practical Enterprise Research Design criteria Inovative Functional Appealing Fit for purpose Generate Model Annotated sketch Cross section Exploded diagram			

	Make Tools Equipment Cutting Shaping Joining Finishing Materials Components Construction Textiles Ingredients Characteristics Evaluate Technical knowldge Structures Strong Stiffer Stable Mechanisms Lever Slider Wheel axel healthy varied diet nutrition	Prototype Pattern pieces Design Cutting Shaping Joining Finishing Materials Components Construction Textiles Ingredients Functional Asthetic Evaluate Product Technical knowledge Strengthen Stiffen Reinforce Structures Mechanical systems Gears Pulleys Cams Levers Linkages Electrical systems Series ciruit Switch Bulb Buzzer Motor Program Monitor Control Nutrition Healthy Diet Varied diet Savoury Seasonality Ingredients

		Reared Growth Processed Grown Caught