

Design						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
*have own ideas * explain what I want to do *explain what my product is for, and how it will work * use pictures and words to plan, begin to use models	 Draw on their own experience to help generate ideas Suggest ideas and explain what they are going to do Identify a target group for what they intend to design and make Model their ideas in card and paper Develop their design ideas applying findings from their earlier research 	Generate ideas by drawing on their own and other people's experiences Develop their design ideas through discussion, observation, drawing and modelling Identify a purpose for what they intend to design and make Identify simple design criteria Make simple drawings and label parts	Generate ideas for an item, considering its purpose and the user(s) Identify a purpose and establish criteria for a successful product Plan the order of their work before starting Explore, develop and communicate design proposals by modelling ideas Make drawings with labels when designing	Generate ideas, considering the purposes for which they are designing Make labelled drawings from different views showing specific features Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggest alternative methods of making, if the first attempts fail Evaluate products and identify criteria that can be used for their own designs	 Generate ideas through brainstorming and identify a purpose for their product Draw up a specification for their design Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail Use results of investigations, information sources, including ICT when developing design ideas 	Communicate their ideas through detailed, labelled drawings Develop a design specification Explore, develop and communicate aspects of their design proposals by modelling their ideas in a variety of ways Plan the order of their work, choosing appropriate materials, tools and techniques



			Make			
making *think about what I need to do next *use tools/equipment to cut, shape, join, finish and explain choices *With support, measure, mark out, cut and shape *choose suitable materials	Year 1 • Make their design using appropriate techniques • With help measure, mark out, cut and shape a range of materials • Use tools eg scissors and a hole punch safely • Assemble, join and combine materials and components together using a variety of temporary	Year 2 • Begin to select tools and materials; use vocabulary to name and describe them • Measure, cut and score with some accuracy • Use hand tools safely and appropriately • Assemble, join and combine materials in order to make a product	Year 3 • Select tools and techniques for making their product • Measure, mark out, cut, score and assemble components with more accuracy • Work safely and accurately with a range of simple tools • Think about their ideas as they make progress and be willing change things if this helps them improve their work	Year 4 • Select appropriate tools and techniques for making their product • Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques • Join and combine materials and components accurately in	Year 5 • Select appropriate materials, tools and techniques • Measure and mark out accurately • Use skills in using different tools and equipment safely and accurately • Weigh and measure accurately (time, dry ingredients, liquids) • Apply the rules for basic food bygiene	Year 6 • Select appropriate tools, materials, components and techniques • Assemble components make, working models • Use tools safely and accurately • Construct products using permanent joining techniques • Make modifications as they go along
	variety of temporary methods e.g. glues or masking tape • Select and use appropriate fruit and vegetables, processes and tools • Use basic food handling, hygienic practices and personal hygiene • Use simple finishing techniques to improve the appearance of their product	 Cut, shape and join fabric to make a simple garment. Use basic sewing techniques Follow safe procedures for food safety and hygiene Choose and use appropriate finishing techniques 	their work • Measure, tape or pin, cut and join fabric with some accuracy • Demonstrate hygienic food preparation and storage • Use finishing techniques to strengthen and improve the appearance of their product using a range of equipment including ICT	temporary and permanent ways • Sew using a range of different stitches - weave and knit • Measure, tape or pin, cut and join fabric with some accuracy • Use simple graphical communication techniques	basic food hygiene and other safe practices e.g. hazards relating to the use of ovens • Cut and join with accuracy to ensure a good-quality finish to the product	 Pin, sew and stitch materials together to create a product Achieve a quality product



Evaluate						
EYFS *talk about my work, * talk about existing products considering: use, materials, how they work, where they might be used * talk about things that other people	Year 1 • Evaluate their product by discussing how well it works in relation to the purpose • Evaluate their products as they are developed,	Year 2 • Evaluate against their design criteria • Evaluate their products as they are developed, identifying strengths and possible changes they might make	Year 3 • Evaluate their product against original design criteria e.g. how well it meets its intended purpose • Disassemble and evaluate familiar	Year 4 • Evaluate their work both during and at the end of the assignment • Evaluate their products carrying out appropriate tests	Year 5 • Evaluate a product against the original design specification • Evaluate it personally and seek evaluation from others	Year 6 • Evaluate their products, carrying out appropriate tests identifying strengths and areas for development • Record their evaluations using
have made *begin to talk about what could make product better	identifying strengths and possible changes they might make • Evaluate their product by answering and asking questions about what they have made and how they have gone about it	Talk about their ideas, saying what they like and dislike about them	products			drawings with labels • Evaluate against their original criteria and suggest ways that their product could be improved



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		Technical K	nowledge - C	Construction		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
* with support begin to measure and join materials *describe differences in materials *with support begin to use levers or slides	*begin to measure and join materials, with some support *describe differences in materials *suggest ways to make material/product stronger *begin to use levers or slides	*measure materials *describe some different characteristics of materials *join materials in different ways *use joining, rolling or folding to make it stronger *use own ideas to try to make product stronger *use levers or slides *begin to understand how to use wheels and axles	*use appropriate materials *work accurately to make cuts and holes * join materials *begin to make strong structures *select appropriate tools / techniques *alter product after checking, to make it better *begin to try new/different ideas *use simple lever and linkages to create movement *use simple circuit in product *learn about how to program a computer to control product	*measure carefully to avoid mistakes *attempt to make product strong *continue working on product even if original didn't work *make a strong, stiff structure *select most appropriate tools / techniques *explain alterations to product after checking it *grow in confidence about trying new / different ideas. *use levers and linkages to create movement *use pneumatics to create movement *use number of components in circuit *program a computer to control product	*select materials carefully, considering intended use of product and appearance *explain how product meets design criteria *measure accurately enough to ensure precision *ensure product is strong and fit for purpose *begin to reinforce and strengthen a 3D structure *refine product after testing *grow in confidence about trying new / different ideas *begin to use cams, pulleys or gears to create movement *incorporate switch into product *confidently use number of components in circuit *begin to be able to program a computer to monitor changes in environment and control product	*select materials carefully, considering intended use of the product, the aesthetics and functionality. *explain how product meets design criteria * reinforce and strengthen a 3D structure or product *refine product after testing, considering aesthetics, functionality and purpose *incorporate hydraulics and pneumatics *be confident to try new / different ideas *use cams, pulleys and gears to create movement *use different types of circuit in product * think of ways in which adding a circuit would improve product * program a computer to monitor changes in environment and control product



Technical Knowledge - Textiles EYFS Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 * with support, *ioin different *think about user *think about user and *think about user's *measure, cut and *measure textiles measure, cut and join ioin textiles to make *join textiles textiles in different when choosing aesthetics when wants/needs and textiles to make a a product, with some together to make a textiles choosing textiles aesthetics when ways product. product, and explain *choose textiles *think about how to *use own template choosing textiles support *choose suitable how I did it considering * think about how to *make product *choose suitable make product strong *carefully cut textiles * begin to devise a attractive and strong appearance and make product strong textiles textiles to produce accurate functionality template and look better *make a prototype *begin to understand *explain how to join *think of a range of *use a range of pieces *explain choices of that a simple fabric things in a different ways to join things joining techniques shape can be used to *begin to understand *think about how textile way *understand that a make a 3D textiles *understand that a that a single 3D product might be 3D textile structure project simple fabric shape textiles project can sold be made from a *think carefully can be used to make can be made from two identical fabric a 3D textiles project combination of fabric about what would improve product shapes. shapes. *understand that a single 3D textiles project can be made from a combination of fabric shapes.



	recni	nicai Knowied	age – Food, L	rink and Nut	rition	
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
*describe textures *wash hands & clean surfaces *talk about interesting ways to decorate food *talk about where some foods come from, (i.e. plant or animal) *talk about differences between some food groups (i.e. sweet, vegetable etc.) *talk about how fruit and vegetables are healthy *with support, cut, peel and grate safely,	describe textures *wash hands & clean surfaces *think of interesting ways to decorate food *say where some foods come from, (i.e. plant or animal) *describe differences between some food groups (i.e. sweet, vegetable etc.) *discuss how fruit and vegetables are healthy *cut, peel and grate safely, with support	*explain hygiene and keep a hygienic kitchen *describe properties of ingredients and importance of varied diet *say where food comes from (animal, underground etc.) *describe how food is farmed, homegrown, caught *draw eat well plate; explain there are groups of food *describe "five a day" *cut, peel and grate with increasing confidence	*carefully select ingredients *use equipment safely *make product look attractive *think about how to grow plants to use in cooking *begin to understand food comes from UK and wider world *describe how healthy diet= variety/balance of food/drinks *explain how food and drink are needed for active/healthy bodies. *prepare hot drinks safely and hygienically *grow in confidence understanding branding of food and drink products	*explain how to be safe/hygienic *think about presenting product in interesting/ attractive ways *understand ingredients can be fresh, pre-cooked or processed *begin to understand about food being grown, reared or caught in the UK or wider world *describe eat well plate and how a healthy diet=variety / balance of food and drinks *explain importance of food and drink for active, healthy bodies *prepare and cook some dishes safely and hygienically *use some of the following techniques: peeling, chopping, slicing, grating, mixing, spreading and baking	*explain how to be safe / hygienic and follow own guidelines *present product well- interesting, attractive, fit for purpose *begin to understand seasonality of foods *understand food can be grown, reared or caught in the UK and the wider world *describe how recipes can be adapted to change appearance, taste, texture, aroma *explain how there are different substances in food / drink needed for health *prepare and cook some savoury dishes safely and hygienically including, where appropriate, use of heat source * use range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.	*understand a recipe can be adapted by adding / substituting *explain seasonality *present product to a high standard to make the product interesting and aesthetically attractive *learn about food processing methods *name some types of food that are grown, reared or caught in the UK or wider world *adapt recipes to change appearance, taste, texture or aroma. *describe different substances in food and drink, and how they can affect health *prepare and cook a variety of dishes safely and hygienically including, where appropriate, the use of heat source. *use a range of techniques confidently such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.