

Year	Developing, planning and communicating ideas	Working with tools, equipment, materials and components to make quality products	Evaluating processes and products
1	<ul style="list-style-type: none"> • Can they think of some ideas of their own? • Can they explain what they want to do? • Can they use pictures and words to plan? 	<ul style="list-style-type: none"> • Can they explain what they are making? • Can they explain which tools are they using? 	<ul style="list-style-type: none"> • Can they describe how something works? • Can they talk about their own work and things that other people have done?
Breadth of Study			
	<p>Cooking and nutrition</p> <ul style="list-style-type: none"> • Can they describe the texture of foods? • Do they wash their hands, put on aprons and make sure that surfaces are clean? <p>Do they know that everyone should eat at least five portions of fruit and vegetables every day? (sci link)</p> <p>With close supervision:</p> <ul style="list-style-type: none"> • Use the claw grip to cut soft foods using a serrated vegetable knife (eg tomato) • Mash cooked food (eg potatoes with a masher) • Peel soft vegetables using a peeler (eg cucumber) • Use a lemon squeezer 	<p>Textiles</p> <ul style="list-style-type: none"> • Can they describe how different textiles feel? • Can they make a product from textiles by gluing? <p>Can they use simple stitches (running stitch, over sewing) using large plastic needles?</p> <p>Can they decorate their product with a range of items (buttons, sequins, beads, ribbons etc)?</p> <ul style="list-style-type: none"> • Can they measure textile? • Can they join textiles together to make something? • Can they cut textiles? • Can they explain why they chose a certain textile? 	
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2	<ul style="list-style-type: none"> • Can they think of ideas and plan what to do next? • Can they choose the best tools and materials? Can they give a reason why these are best? • Can they describe their design by using pictures, diagrams, models and words? 	<ul style="list-style-type: none"> • Can they join things (materials/ components) together in different ways? 	<ul style="list-style-type: none"> • Can they explain what went well with their work? • If they did it again, can they explain what they would improve?
Breadth of Study			
	<p>Cooking and nutrition</p> <ul style="list-style-type: none"> • Can they explain what it means to be hygienic? <p>Can they use appropriate equipment to weigh and measure ingredients? (maths link)</p> <p>Can they explain where the ingredients come from?</p> <p>With close supervision:</p> <ul style="list-style-type: none"> • Use the bridge hold to cut harder foods using a serrated vegetable knife (eg apple) • Cut food into evenly sized largish pieces (eg potatoes) With moderate supervision: • Using physical guidance if necessary, peel harder food (eg apple, potato) <p>With moderate supervision:</p> <ul style="list-style-type: none"> • Mix, stir and combine liquid and dry ingredients (eg muffins) • Use hands to rub fat into flour (eg rock buns) • Crack an egg and beat together using a fork • Use a small table knife for spreading soft spreads on to bread • Use hands to shape dough in to small balls or shapes • Assemble and arrange cold ingredients (eg sandwich, fruit kebabs, bruschetta) <p>Independently:</p> <ul style="list-style-type: none"> • Sift flour into bowl 	<p>Construction materials</p> <p>Mechanisms</p> <ul style="list-style-type: none"> • Can they use split pins and hole punches to make moving parts? • Can they use and investigate wheels and axles? • Can they investigate and make simple levers and sliders? • Can they use simple stitching using needles and felt - running stitch? <p>Use of materials</p> <ul style="list-style-type: none"> • Can they measure materials to use in a model or structure? (maths link) • Can they use joining, folding or rolling to make it stronger? • Can they investigate stable structures and find ways to strengthen them? • Can they investigate joining using a variety of materials e.g. PVA, glue, glue stick, sticky tape, treasury tags, split pins? • Can they cut materials using scissors? 	
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3	<ul style="list-style-type: none"> • Can they show that their design meets a range of requirements? • Can they put together a step-by-step plan which shows the order and also what equipment and tools they need? • Can they describe their design using an accurately labelled sketch and words? • How realistic is their plan? 	<ul style="list-style-type: none"> • Can they use equipment and tools accurately? 	<ul style="list-style-type: none"> • Can they explain what they changed which made their design even better?
Breadth of Study			
	<p>Textiles</p> <ul style="list-style-type: none"> • Can they join textiles of different types in different ways? • Can they choose textiles both for their appearance and also qualities? • Do they think what the user would want when choosing textiles? • Have they thought about how to make their product strong? • Can they devise a template? • Can they explain how to join things in a different way? <p>Can they use running stitch, over sewing, back stitch and fastenings?</p> <p>Can they create a simple pattern?</p> <p>Do they understand seam allowances?</p> <p>Can they create simple patterns and appropriate decoration techniques (e.g. applique)?</p>	<p>Cooking and nutrition</p> <p>With moderate supervision:</p> <ul style="list-style-type: none"> • Mix, stir and combine wet and dry ingredients uniformly (eg to form a dough) • Crack an egg and beat with balloon whisk • Cream fat and sugar together using a mixing spoon • Use a rolling pin to flatten and roll out dough (eg scones) <ul style="list-style-type: none"> • use biscuit cutters • Coat food with egg and breadcrumbs (eg fish cakes) <p>Independently:</p> <ul style="list-style-type: none"> • Sieve flour, raising agents and spices together in to a bowl • Use hands to rub fat into flour (eg scones, apple crumble) • Knead and shape dough in to evenly sized shapes • Assemble and arrange ingredients for simple dishes (eg apple crumble, scrambled egg on toast) <p>With close supervision:</p> <ul style="list-style-type: none"> • begin to use a toaster or microwave (e.g beans on toast) • Using physical guidance when necessary, handle hot food safely once adults have removed food from the hob or oven (e.g. use oven gloves and a fish slice to remove scones from the baking tray) 	
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4	<ul style="list-style-type: none"> • Can they come up with at least one idea about how to create their product? • Do they take account of the ideas of others when designing? • Can they produce a plan and explain it to others? • Can they suggest some improvements and say what was good and not so good about their original design? 	<ul style="list-style-type: none"> • Can they tell if their finished product is going to be good quality? • Are they conscience of the need to produce something that will be liked by others? • Can they show a good level of expertise when using a range of tools and equipment? • Do they work at their product even though their original idea might not have worked? 	<ul style="list-style-type: none"> • Have they thought of how they will check if their design is successful? • Can they begin to explain how they can improve their original design? • Can they evaluate their product, thinking of both appearance and the way it works? • Do they take time to consider how they could have made their idea better?
Breadth of Study			
	<p>Cooking and nutrition</p> <ul style="list-style-type: none"> • Do they know what to do to be hygienic and safe (Sci link) ? Can they follow a recipe to create a range of savoury dishes (Eng link)? Can they measure accurately using grams (maths link)? <p>With moderate supervision:</p> <ul style="list-style-type: none"> • Use the claw grip to cut harder foods using a serrated vegetable knife (eg carrot) • Use both the bridge hold and claw grip to cut the same food using a serrated vegetable knife (eg onion) • Use a masher to mash hot food to a fairly smooth texture • Cut foods into evenly sized strips or cubes (eg peppers, cheese) <p>Independently:</p> <ul style="list-style-type: none"> • Peel harder food (eg apple, potato) • Crush garlic using a garlic press • Grate harder food using a grater (eg apples, carrots) 	<p>Electrical and mechanical components</p> <ul style="list-style-type: none"> • Do they select the most appropriate tools and techniques to use for a given task? • Can they make a product which uses both electrical and mechanical components? • Can they use a simple circuit? • Can they use a number of components? • Can they add things to their circuits? • How have they altered their product after checking it? • Are they confident about trying out new and different ideas? <p>Construction Materials:</p> <ul style="list-style-type: none"> • Can they measure carefully so as to make sure they have not made mistakes? • Can they join materials accurately and precisely? • Can they work accurately to make cuts and holes? • Do they use the most appropriate materials? 	
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5	<ul style="list-style-type: none"> • Can they come up with a range of ideas after they have collected information? • Do they take a user's view into account when designing? • Can they produce a detailed step-by-step plan? • Can they suggest some alternative plans and say what the good points and drawbacks are about each? 	<ul style="list-style-type: none"> • Can they explain why their finished product is going to be of good quality? • Can they explain how their product will appeal to the audience? • Can they use a range of tools and equipment expertly? • Do they persevere through different stages of the making process? 	<ul style="list-style-type: none"> • Do they keep checking that their design is the best it can be? • Do they check whether anything could be improved? • Can they evaluate appearance and function against the original criteria?
Breadth of Study			
	<p>Cooking and nutrition</p> <ul style="list-style-type: none"> • Can they describe what they do to be both hygienic and safe? <p>moderate supervision:</p> <ul style="list-style-type: none"> • With help begin to separate eggs • whisk using an electric hand mixer (eg eggs) • cream fat and sugar together using an electric hand mixer • Use a rolling pin to roll out dough to a specific thickness (eg pizza) • Use biscuit cutters accurately to assemble, arrange and layer more advanced dishes (eg apple sponge pudding, shepherd's pie) <p>Independently:</p> <ul style="list-style-type: none"> • Use finger tips to rub fat into flour to make fine 'bread crumbs' (eg apple crumble) • Sieve wet and dry ingredients with precision • Confidently crack an egg • Knead and shape dough in to a variety of shapes <p>With close supervision:</p> <ul style="list-style-type: none"> • With help, begin to use the hob or electric saucepan (wok or stock pot) to cook simple dishes (eg burgers, soup) • handle hot food safely, using oven gloves to carefully remove cooked food with a fish slice from a baking tray on to a cooling rack 	<p>Textiles</p> <ul style="list-style-type: none"> • Do they think what the user would want when choosing textiles? • How have they made their product attractive and strong? • Can they make up a prototype first? • Can they use a range of joining techniques? <p>Textiles</p> <ul style="list-style-type: none"> • Have they thought about how their product could be sold? • Have they given considered thought about what would improve their product even more? 	
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6	<ul style="list-style-type: none"> • Can they use a range of information to inform their design? • Can they use market research to inform plans? • Can they work within constraints? • Can they follow and refine their plan if necessary? • Can they justify their plan to someone else? • Do they consider culture and society in their designs? 	<ul style="list-style-type: none"> • Can they use tools and materials precisely? • Do they change the way they are working if needed? 	<ul style="list-style-type: none"> • How well do they test and evaluate their final product? • Is it fit for purpose? • What would improve it? • Would different resources have improved their product? • Would they need more or different information to make it even better? • Does their product meet all design criteria? • Did they consider the use of the product when selecting materials?

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<p>Cooking and nutrition</p> <ul style="list-style-type: none"> • Can they explain how their product should be stored with reasons? • Can they set out to grow their own products with a view to making a salad, taking account of time required to grow different foods? <p>With moderate supervision:</p> <ul style="list-style-type: none"> • Finely grate hard foods (eg zesting, parmesan cheese) • With support, use a can opener and open ring-pull tin • Dice foods and cut them into evenly sized, fine pieces (eg garlic, vegetable batons, herbs) <p>Independently:</p> <ul style="list-style-type: none"> • Confidently use the claw grip to cut harder foods using a serrated vegetable knife (eg carrot) • Confidently use both the bridge hold and claw grip to cut the same food using a serrated vegetable knife (eg onion) • Confidently peel harder food using a peeler (eg apple, potato) <p>With close supervision:</p> <ul style="list-style-type: none"> • use a food processor or electric hand blender to mash, blend or puree hard ingredients or hot food (eg chickpeas for hummus or vegetables for soup) • With help, begin to use the hob or electric saucepan (wok or stock pot) to cook simple dishes (eg burgers, soup) • handle hot food safely, using oven gloves to carefully remove cooked food with a fish slice from a baking tray on to a cooling rack 	<p>Electrical and mechanical components</p> <ul style="list-style-type: none"> • Can they incorporate a switch into their product? • Can they refine their product after testing it? • Can they incorporate hydraulics and pneumatics? • Can they use different kinds of circuit in their product? • Can they think of ways in which adding a circuit would improve their product? <p>Stiff and flexible sheet materials / Mouldable materials</p> <ul style="list-style-type: none"> • Are their measurements accurate enough to ensure that everything is precise? • How have they ensured that their product is strong and fit for purpose? • Can they justify why they selected specific materials? • How have they ensured that their work is precise and accurate? • Can they hide joints so as to improve the look of their product? • Can they justify design in relation to the audience? • Are they motivated enough to refine and further improve their product using mouldable materials?
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