

Design & Technology KS2 Mixed Age Class Progression Document					
	Designing	Making	Evaluating	Technical Knowledge	Cooking & Nutrition
	Year A- Year B- See art long term plan for specific	textile projects			See long term cookery plan
UKS2 Tools	 prove that a design meets a set criteria design a product and make sure that it looks attractive choose a material for both its suitability and its appearance use ideas from other people when designing produce a plan and explain it persevere and adapt work when original ideas do not work communicate ideas in a range of ways, including by sketches and drawings which are annotated use internet and questionnaires for research and design ideas take a user's view into account when designing begin to consider needs/wants of individuals/groups when designing and ensure product is fit for purpose create own design criteria have a range of ideas produce a logical, realistic plan and explain it to others. make design decisions considering time and resources. model and refine design ideas by making prototypes and using pattern pieces use computer-aided designs Toys: Saws, Glue guns, Laminator, Dri 	 follow a step-by-step plan, choosing the right equipment and materials select the most appropriate tools and techniques for a given task, explain choices, considering functionality make a product which uses both electrical and mechanical components work accurately to measure, make cuts and make holes know which tools to use for a particular task and show knowledge of handling the tool know which material is likely to give the best outcome measure accurately explain how product will appeal to an audience Accurately measure, mark out, cut and shape materials/components mainly accurately apply a range of finishing techniques begin to be resourceful with practical problems 	 explain how to improve a finished model know why a model has, or has not, been successful evaluate and suggest improvements for design while designing and making evaluate products against specification for both their purpose and appearance explain how the original design has been improved present a product in an interesting way evaluate and discuss existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose begin to evaluate how much products cost to make and how innovative they are talk about some key inventors/designers/ engineers/ chefs/manufacturers of groundbreaking products 	 know how to strengthen a product by stiffening a given part or reinforce a part of the structure use a simple IT program within the design know how to strengthen a product by stiffening a given part or reinforce a part of the structure use a simple IT program within the design think about user and aesthetics when choosing textiles think of a range of ways to join things begin to understand that a single 3D textiles project can be made from a combination of fabric shapes. begin to use pulleys or gears 	 describe how food ingredients come together weigh out ingredients and follow a given recipe to create a dish talk about which food is healthy and which food is not know when food is ready for harvesting know how to be both hygienic and safe when using food bring a creative element to the food product being designed know how to prepare a meal by collecting the ingredients in the first place know which season various foods are available for harvesting explain how food ingredients should be stored and give reasons work within a budget to create a meal understand the difference between a savoury and sweet dish understand and apply principles of a healthy diet. prepare and cook savoury dishes, range of cooking techniques. where ingredients are caught and processed. present product well - interesting, use range of techniques such as peeling, chopping, slicing, grating, mixing,
	<u>Trains, planes and automobiles</u> : Wire cutter/stripper, Screwdrivers, Craft knives, Safety ruler, Scissors <u>Design</u> :, Wire cutter/stripper, Pliers, sandpaper, Glue guns, saws, craft knives, safety ruler, scissors, sandpaper <u>Space</u> : 3D pens, 3D printer, CAD software <u>In the Garden</u> : Hammer, nails, Sandpaper, Glue guns, saws, craft knives, safety ruler, scissors, sandpaper <u>Holidays</u> : Control IT equipment, children's choice of tools dependent on design chosen				
LKS2	 use research for design ideas show design meets a range of requirements and is fit for purpose 	 select suitable tools and equipment, explain choices in relation to required techniques and use accurately 	 refer to design criteria while designing and making use criteria to evaluate product 	 think about user when choosing textiles join different textiles in different ways choose textiles considering appearance and functionality 	 carefully select ingredients explain how to be safe/hygienic think about presenting product in interesting/ attractive ways

	 use cross-sectional planning and annotated sketches Follow design criteria and the begin to create own have at least one idea about how to create product and suggest improvements for design. produce a plan and explain it to others create a plan which shows order, equipment and tools say how realistic plan is. include an annotated sketch make and explain design decisions considering availability of resources explain how product will work make a prototype begin to use computers to show design. select appropriate materials, fit for purpose; explain choices work through plan in order. realise if product is going to be good quality measure, mark out, cut and shape materials/components with some accuracy assemble, join and combine materials and components with some accuracy apply a range of finishing techniques with some accuracy 	 begin to explain how I could improve original design evaluate existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose discuss by whom, when and where products were designed research whether products can be recycled or reused know about some inventors/designers/ engineers/chefs/manufacturers of ground-breaking products 	 Use simple levers think about how to make product strong begin to devise a template explain how to join things in a different w understand that a simple fabric shape can be used to make a 3D textiles project
Tools	Toys – Scissors, saws, clamp, glue gun, hole punch Trains, Planes and Automobiles – Glue gun, scissors Zoo – Scissors, sellotape, saw, double sided tape, glue gun, craft knife, PVA, st Design – Scissors, microwave, molds, IT Minibeasts – Ruler, pipe, scissors, hole punch, glue gun, syringes, PVA, balloons		

way an	 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, kneading and baking
	peeling, chopping, slicing, grating,