		Disciplinary knowledge . To be a designer children need to be able to				
Year Group	Designing	Making	Evaluating			
Foundation Stage	Select appropriate resources Use gestures, talking and arrangements of materials and components to show design Use contexts set by the teacher and myself Use language of designing and making (join, build, shape, longer, shorter, heavier etc.)	Construct with a purpose, using a variety of resources Use simple tools and techniques Build / construct with a wide range of objects Select tools & techniques to shape, assemble and join Replicate structures with materials / components Discuss how to make an activity safe and hygienic Record experiences by drawing, writing, voice recording Understand different media can be combined for a purpose	Adapt work if necessary Dismantle, examine, talk about existing objects/structures Consider and manage some risks Practise some appropriate safety measures independently Talk about how things work Look at similarities and differences between existing objects / materials / tools Show an interest in technological toys Describe textures	Beg tec Pra Dis Dis Un Beg goo		
1	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 Design a product for myself following design criteria Research similar existing products	Explain what I'm making and why Consider what I need to do next *select tools/equipment to cut, shape, join, finish and explain choices Measure, mark out, cut and shape, with support Choose suitable materials and explain choices Try to use finishing techniques to make product look good Work in a safe and hygienic manner	Talk about my work, linking it to what I was asked to do Talk about existing products considering: use, materials, how they work, audience, where they might be used Talk about existing products, and say what is and isn't good Talk about things that other people have made Begin to talk about what could make product better	Des Wa Thi Say Des Swo Dis Cut		
2	Have own ideas and plan what to do next Explain what I want to do and describe how I may do it Explain purpose of product, how it will work and how it will be suitable for the user Describe design using pictures, words, models, diagrams, begin to use ICT Design products for myself and others following design criteria Choose best tools and materials, and explain choices * use knowledge of existing products to produce ideas	Explain what I am making and why it fits the purpose Make suggestions as to what I need to do next. Join materials/components together in different ways Measure, mark out, cut and shape materials and components, with support. Describe which tools I'm using and why Choose suitable materials and explain choices depending on characteristics. Use finishing techniques to make product look good Work safely and hygienically	Describe what went well, thinking about design criteria Talk about existing products considering: use, materials, how they work, audience, where they might be used; express personal opinion Evaluate how good existing products are Talk about what I would do differently if I were to do it again and why	Exp Des var Say Des Dra Des Cut		
3	Begin to research others' needs Show design meets a range of requirements Describe purpose of product Follow a given design criteria Have at least one idea about how to create product Create a plan which shows order, equipment and tools Describe design using an accurately labelled sketch and words Make design decisions Explain how product will work Make a prototype Begin to use computers to show design	Select suitable tools/equipment, explain choices; begin to use them accurately Select appropriate materials, fit for purpose. Work through plan in order Consider how good product will be Begin to measure, mark out, cut and shape materials/components with some accuracy Begin to assemble, join and combine materials and components with some accuracy Begin to apply a range of finishing techniques with some accuracy	Look at design criteria while designing and making Use design criteria to evaluate finished product Say what I would change to make design better Begin to evaluate existing products, considering: how well they have been made, materials, whether they work, how they have been made, fit for purpose Begin to understand by whom, when and where products were designed Learn about some inventors/designers/ engineers/chefs/ manufacturers of groundbreaking products	Car Use Ma Thi Beg wo Des foo Exp act Pre Gro tec spr		
4	Use research for design ideas Show design meets a range of requirements and is fit for purpose Begin to create own design criteria Have at least one idea about how to create product and suggest improvements for design. Produce a plan and explain it to others Say how realistic plan is. Include an annotated sketch Make and explain design decisions considering availability of resources	Select suitable tools and equipment, explain choices in relation to required techniques and use accurately 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	Refer to design criteria while designing and making Use criteria to evaluate product 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/	Exp Thi attr Und pro Beg cau Des bal Exp boo		

Cooking and Nutrition

- Begin to understand some food preparation tools, echniques and processes
- ractise stirring, mixing, pouring, blending
- Discuss how to make an activity safe and hygienic Discuss use of senses
- Inderstand need for variety in food
- Begin to understand that eating well contributes to good health

Describe textures

- Vash hands & clean surfaces
- hink of interesting ways to decorate food
- ay where some foods come from, (i.e. plant or animal) Describe differences between some food groups (i.e.
- weet, vegetable etc.)
- viscuss how fruit and vegetables are healthy out, peel and grate safely, with support
- Explain hygiene and keep a hygienic kitchen Describe properties of ingredients and importance of aried diet
- ay where food comes from (animal, underground etc.) Describe how food is farmed, home-grown, caught Draw eat well plate; explain there are groups of food
- Describe "five a day"
- tut, peel and grate with increasing confidence

Carefully select ingredients

- Jse equipment safely
- Nake product look attractive
- hink about how to grow plants to use in cooking
- egin to understand food comes from UK and wider vorld
- escribe how healthy diet= variety/balance of bod/drinks
- xplain how food and drink are needed for ctive/healthy bodies.
- repare and cook some dishes safely and hygienically frow in confidence using some of the following
- echniques: peeling, chopping, slicing, grating, mixing, preading
- xplain how to be safe/hygienic
- hink about presenting product in interesting/ ttractive ways
- Inderstand ingredients can be fresh, pre-cooked or rocessed
- egin to understand about food being grown, reared or aught in the UK or wider world
- escribe eat well plate and how a healthy diet=variety / alance of food and drinks
- Explain importance of food and drink for active, healthy podies

	Explain how product will work Make a prototype Begin to use computers to show design.	Apply a range of finishing techniques with some accuracy	engineers/chefs/manufacturers of ground-breaking products	Pre Us cho ano
5	Use internet 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. Use cross-sectional planning and annotated sketches Make design decisions considering time and resources. Clearly explain how parts of product will work. Model and refine design ideas by making prototypes and using pattern pieces. Make computer-aided designs	Use selected tools/equipment with good level of precision Produce suitable lists of tools, equipment/materials needed Select appropriate materials, fit for purpose; explain choices, considering functionality Create and follow detailed stepby-step plan Explain how product will appeal to an audience Mainly accurately measure, mark out, cut and shape materials/components Mainly accurately assemble, join and combine materials/components Mainly accurately apply a range of finishing techniques Use techniques that involve a small number of steps begin to be resourceful with practical problems	Evaluate quality of design while designing and making Evaluate ideas and finished product against specification, considering purpose and appearance. Test and evaluate final product 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 Research how sustainable materials are Talk about some key inventors/designers/ engineers/ chefs/manufacturers of ground-breaking products	Ex gu Pre pu Be Un Uk De ap Ex dri Pre hy Sol
6	 Draw on market research to inform design Use research of user's individual needs, wants, requirements for design Identify features of design that will appeal to the intended user Create own design criteria and specification Come up with innovative design ideas Follow and refine a logical plan. Use annotated sketches and exploded diagrams Make design decisions, considering, resources and cost Clearly explain how parts of design will work, and how they are fit for purpose Independently model and refine design ideas by making prototypes and using pattern pieces * use computer-aided designs 	Use selected tools and equipment precisely Produce suitable lists of tools, equipment, materials needed, considering constraints Select appropriate materials, fit for purpose; explain choices, considering functionality and aesthetics Create, follow, and adapt detailed step-by-step plans Explain how product will appeal to audience; make changes to improve quality Accurately measure, mark out, cut and shape materials/components Accurately assemble, join and combine materials/components Accurately apply a range of finishing techniques Use techniques that involve a number of steps	 Evaluate quality of design while designing and making; is it fit for purpose? Keep checking design is best it can be. Evaluate ideas and finished product against specification, stating if it's fit for purpose Test and evaluate final product; explain what would improve it and the effect different resources may have had Do thorough evaluations of existing products considering: how well they've been made, materials, whether they work, how they've been made, fit for purpose Evaluate how much products cost to make and how innovative they are Research and discuss how sustainable materials are Consider the impact of products beyond their intended purpose Discuss some key inventors 	Un sul Ex Lea Na cau Ad arc De dri Pre hy he Us che an

- Prepare and cook some dishes safely and hygienically Use some of the following techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading 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 JK 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 ingredients
- Explain seasonality of foods
- _earn 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 some of the different substances in food and drink, and how they can affect health
- Prepare and cook a variety of savoury dishes safely and nygienically including, where appropriate, the use of neat source.
- Use a range of techniques confidently such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.