EYFS	 Draw what they are Choose appropriate Explain what they a Make judgements a Test out the proper Draw what they are Use tools safely. Describe how a pro Explore, use and ref Return to and build 	going to make. tools. re happy with in a product bout properties of differen- ties of materials. going to make and explain duct is made up of many d ine a variety of artistic effe on their previous learning ely, sharing ideas, resource	ifferent parts. ects to express their ideas a , refining ideas and develop	he design to improve it. bility for construction. and feelings. ping their ability to repres	Sent them. Materials, Children si technique and funct process th Expressive Children u original w represent design and Physical D Children h	 Expressive Arts and Design (Exploring and Using Media and Materials) Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. They share their creations, explaining the process they have used. Expressive Arts and Design (Being Imaginative) Children use what they have learnt about media and materials in original ways, thinking about uses and purposes. They represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role play and stories. Physical Development (Moving and Handling) Children handle equipment and tools effectively 			 EYFS DT Vocabulary: Design: choose, colour, ideas Make: cut, make, try break, join, materials, measure, Evaluate: difficult, don't like, easy, feelings, thoughts, like, use, test, think. repeat, Technical knowledge: cutlery, safe design, properties, speed, stability, Cooking & Nutrition: cut, food, fruit, mix, smell, stir, taste, vegetables 		
National Curriculum Expectations	 Design design purposeful, f other users based o generate, develop, r drawing, templates, and communication select from and use tasks [for example, o select from and use including constructi their characteristics Evaluate explore and evaluat and products agains Technical Knowledge Pupils should be taugh build structures, exp more stable; explore and use me axles], in their produce 	unctional, appealing produ n design criteria; model and communicate the mock-ups and, where app technology. a range of tools and equipr sutting, shaping, joining ar a wide range of materials on materials, textiles and i e a range of existing product t design criteria. t to: ploring how they can be me chanisms [for example, lev ucts. t to: plos of a healthy and varied	heir ideas through talking, propriate, information nent to perform practical ad finishing]; and components, ngredients, according to ucts; evaluate their ideas ade stronger, stiffer and rers, sliders, wheels and	NC: KS2 Pupils should be taught: Design • use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups; • generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. Make • select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately; • select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. Evaluate • investigate and analyse a range of existing products; • events and individuals in design and technology have helped shape the world. Technical Knowledge • apply their understanding of how to strengthen, stiffen and reinforce more complex structures; • understand and use electrical systems in their products [for example, gears, pulleys, cams, levers and linkages]; • understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]; • apply their understanding of computing to program, monitor and control their products. Cooking and Nutrition Pupils should be taught to: • 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.							
DT Units Cycle A	Textiles: Fabric faces	Structures Moving pictures: traditional tales	Cooking & nutrition: Dips & Dippers	Electrical systems: Battery operated lights	Mechanisms & levers: Mechanical posters	Cooking & nutrition: Edible garden:	Marbulous Structures: Marble run	Cooking & Nutrition Super seasonal cooking.	Programming Adventures		
Cycle B	Cooking & Nutrition: Sensational salads	Textiles: Fabric Bunting	Structures: Pirate Paddy's packed lunch problem.	Structures: Let's fly a kite	Cooking & nutrition: Great bread bake off:	Textiles: Juggling balls	Cooking & nutrition :Global food	mechanical systems: Automata Animals	Textiles: Felt phone cases.		

Design	 generate their ideas; design products that have a p explain how their products of annotated drawings; design models using simple co plan and test ideas using temp understand and follow simple work in a range of relevant home, school and the wider e 	plates and mock-ups; f design criteria; contexts, for example imaginary, story-based, nvironment.	 customers; use their knowledge of a broad ra their ideas; design innovative and appealing paimed at a specific user; explain how particular parts of thuse annotated sketches and cross communicate their ideas; when designing, explore different design; when planning, start to explain thincluding function and aesthetics; test ideas out through using prote develop and follow simple design; work in a broader range of relevation, school, leisure, food industion 	s-sectional drawings to develop and t initial ideas before coming up with a final teir choice of materials and components obtypes; velop and communicate their ideas criteria; ant contexts, for example entertainment, the try and the wider environment.	 UKS2 Children can: use research to inform and develop detailed design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at a target market; use their knowledge of a broad range of existing products to help generate their ideas; design products that have a clear purpose and indicate the design features of their products that will appeal to the intended user; explain how particular parts of their products work; use annotated sketches, cross-sectional drawings and exploded diagrams (possibly including computer-aided design) to develop and communicate their ideas; generate a range of design ideas and clearly communicate final designs; consider the availability and costings of resources when planning out designs; work in a broad range of relevant contexts, for example conservation, the home, school, leisure, culture, enterprise, industry and the wider environment. 		
Design Vocabulary	design, designing, drawing, labels, model, purpose, template, user	annotated drawings, appealing, communicate, computing software, creative, design criteria, develop, function, intended user, mock-up, practical, products, purposeful	annotated sketches, computer-aided design, develop, fit for purpose, functional, pattern pieces, research	aesthetics, cross-sectional diagrams, exploded diagrams, generate, innovative, prototypes, specific user	industry, leisure, resources, target market	availability, costings, conservation, culture, enterprise	
Make	template, user develop, function, intended user, mock-up, practical, products, purposeful KS1 Children can: Planning with support, follow a simple plan or recipe; begin to select from a range of hand tools and equipment, such as scissors, graters, zesters, safe knives, juicer; select from a range of materials, textiles and components according to their characteristics; Practical skills and techniques learn to use hand tools and kitchen equipment safely and appropriately and learn to follow hygiene procedures; use a range of materials and components, including textiles and food ingredients; with help, measure and markout; cut, shape and score materials with some accuracy; assemble, join and combine materials, components or ingredients; demonstrate how to cut, shape and join fabric to make a simple product; manipulate fabrics in simple ways to create the desired effect; use a basic running stitch; cut, peel and grate ingredients, including measuring and weighing ingredients using measuring cups; begin to use simple finishing techniques to improve the appearance of their product, such as adding simple decorations.		 properties and aesthetic qualities place the main stages of making i Practical skills and techniques learn to use a range of tools and accurately and learn to follow hyg use a wider range of materials an materials and kits, textiles and momental materials and kits, textiles and momental straight in the growing independence, mean millimetre; cut, shape and score materials with assemble, join and combine materaccuracy; demonstrate how to measure, cut to make a simple product; join textiles with an appropriate so begin to select and use different an improve the appearance of a product and digital graphics. 	es; ind components according to their functional ; n a systematic order; equipment safely, appropriately and giene procedures; d components, including construction echanical and electrical components; sure and mark out to the nearest cm and th some degree of accuracy; irial and components with some degree of t, shape and join fabric with some accuracy eewing technique; nd appropriate finishing techniques to uct such as hemming, tie-dye, fabric paints	 UKS2 Children can: Planning independently plan by suggesting what to do next; with growing confidence, select from a wide range of tools and equipment, explaining their choices; select from a range of materials and components according to their functional properties and aesthetic qualities; create step-by-step plans as a guide to making; Practical skills and techniques learn to use a range of tools and equipment safely and appropriately and learn to follow hygiene procedures; independently take exact measurements and mark out, to within 1 millimetre; use a full range of materials and components, including construction materials and kits, textiles, and mechanical components; cut a range of materials with precision and accuracy; shape and score materials with precision and accuracy; demonstrate how to measure, make a seam allowance, tape, pin, cut, shape and join fabric with precision to make a more complex product; join textiles using a greater variety of stitches, such as backstitch, whip stitch, blanket stitch; 		
Make Vocabulary	appearance, combine, construction materials, cut, decorations, equipme fabric, finish, join, making, mark out materials, plan, shaping, tools		fabric paint, functional properties, kits, mechanical components, select, sewing technique, stages, tie-dye	aesthetic qualities, digital graphics, electrical components, finishing technique, hemming, systematic order	backstitch, blanket stitch, precision, sanding, step-by-step plan	seam allowance, whip stitch	

Evaluate	 KS1 Children can: explore and evaluate existing products mainly through discussions, comparisons and simple writtenevaluations; explain positives and things to improve for existing products; explore what materials products are made from; talk about their design ideas and what they are making; as they work, start to identify strengths and possible changes they might make to refine their existing design; evaluate their products and ideas against their simple design criteria; start to understand that the iterative process sometimes involves repeating different stages of the process. 		 LKS2 Children can: explore and evaluate existing products, explaining the purpose of the product and whether it is designed well to meet the intended purpose; explore what materials/ingredients products are made from and suggest reasons for this; consider their design criteria as they make progress and are willing to alter their plans, sometimes considering the views of others if this helps them to improve their product against their original design criteria; evaluate the key events, including technological developments, and designs of individuals in design and technology that have helped shape the world. 			ntended purpose; are made from and suggest ogress and are willing to alter of others if this helps them to lesign criteria; cal developments, and designs of	 UKS2 Children can: complete detailed competitor analysis of other products on the market; critically evaluate the quality of design, manufacture and fitness for purpose of products as they design and make; evaluate their ideas and products against the original design criteria, making changes as needed. 		
Evaluate Vocabulary Technical Knowledge	 change, compare, materials, repeat build simple structures, exploring how they can be made stronger, stiffer and more stable; talk about and start to understand the simple working characteristics of materials and components; explore and create products using mechanisms, such as levers, sliders and wheels. 		alter, existing products, key events, key individuals, investigate, views analyse, technological developments • understand that materials have both functional properties and aesthetic qualities; • apply their understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more useful characteristics of products; • understand and demonstrate how mechanical and electrical systems have an input and outputprocess; • make and represent simple electrical circuits, such as a series and parallel, and components to create functional products; • explain how mechanical systems such as levers and linkages create movement; • use mechanical systems in their products.			hal properties and aesthetic then, stiffen and reinforce more seful characteristics of products; al and electrical systems have an such as a series and parallel, ts;	competitor analysis, fitness for purpose, manufacture, quality competitor analysis, market • apply their understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more useful characteristics of products; • understand and demonstrate that mechanical and electrical systems have an input, process andoutput; • explain how mechanical systems, such as cams, create movement and use mechanical systems in theirproducts; • apply their understanding of computing to program, monitor and control a product.		
Vocabulary Cooking & Nutrition	 axles, build, explore, materials, stiff, strong, wheels explain where in the world different foods originate from; understand that all food comes from plants or animals; understand that food has to be farmed, grown elsewhere (e.g. home) or caught; name and sort foods into the five groups in the Eatwell Guide; understand that everyone should eat at least five portions of fruit and vegetables every day and start to explainwhy; use what they know about the Eatwell Guide to design and prepare dishes. 		 cams, gears, input process, linkages, mechanical systems, output process, program, pulleys, stiffen, strengthen start to know when, where and how food is grown (such as herbs, tomatoes and strawberries) in the UK, Europe and the wider world; understand how to prepare and cook a variety of predominantly savoury dishes safely and hygienically; with support, use a heat source to cook ingredients showing awareness of the need to control the temperature of the hob and/or oven; use a range of techniques such as mashing, whisking, crushing, grating, cutting, kneading and baking; explain that a healthy diet is made up of a variety and balance of different food and drink, as represented in the Eatwell Guide and be able to apply these principles when planning and cooking dishes; understand that to be active and healthy, nutritious food and drink are needed to provide energy for the body; prepare ingredients using appropriate cooking utensils; measure and weigh ingredients to the nearest gram and millilitre; start to understand seasonality. 			inforce, series circuits, switch rown (such as herbs, tomatoes wider world; cy of predominantly savoury dients showing awareness of the ind/or oven; thisking, crushing, grating, riety and balance of different Guide and be able to apply dishes; tritious food and drink are g utensils;	 know, explain and give examples of food that is grown (such as pears, wheat and potatoes), reared (such as poultry and cattle) and caught (such as fish) in the UK, Europe and the wider world; understand about seasonality, how this may affect the food availability and plan recipes according toseasonality; understand that food is processed into ingredients that can be eaten or used in cooking; demonstrate how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source; demonstrate how to use a range of cooking techniques, such as griddling, grilling, frying and boiling; explain that foods contain different substances, such as protein, that are needed for health and be able to apply these principles when planning and preparing dishes; adapt and refine recipes by adding or substituting one or more ingredients to change the appearance, taste, texture and aroma; alter methods, cooking times and/or temperatures; measure accurately and calculate ratios of ingredients to scale up or down from a recipe; independently follow a recipe. 		
Cooking & Nutrition Vocabulary	animals, caught, chop, farmed, food safety, grate, grown, healthy, ingredients, plants, slice, sort, weigh	design, Eatwell Guide, food groups, hazard, hygiene, juicer, originate, peel, portions, prepare, safe knives, varied diet, zest, zester	bake, balance, crush, e hob, hygiene procedure oven, preparation, pro savoury, sweet, tempe	es, knead, mash, cessed, reared, r	millilitre, ecipe,	active, balanced diet, cooking utensils, hygienically, menu, nutrition, nutritious, seasonality, variety	boiling, cattle, frying, griddling, grilling, processed, protein	aroma, poultry, ratios, refine, scale down, scale up, substances, substitute	