

Intent



understand and apply the principles of nutrition and begin to learn a Subject Content, Knowledge and Skills:	about cooking. Progression Outcomes
 When designing and making, pupils should be taught to: 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 aparthetic example. 	Design I can generate and develop my ideas through discussion I can design products that are functional and designed for purpose I can create a cross sectional drawing of my design Make Could use QCA Units Torches 4c or 4E Light it up I can include a simple electrical circuit and switch in my product that produces one outcome e.g. Light (link to science, electricity) could use QCA Money Containers 4A I can join fabrics using a wider range of stitches. e.g. Back stitch, chain stitch, cross and blanket I can choose the most appropriate joining technique to add a decoration to a piece of fabric could use Moving Toys QCA 5C I can use simple mechanical systems in my products e.g. Gears and cams I can measure and mark a square section & dowelling to the nearest cm
aesthetic qualities Evaluate	I can use a bradawl to mark hole positions I can use a hand drill to make tight holes and loose holes
 investigate and analyse a range of existing products evaluate their ideas and products against their own design criteria and consider the views of others to improve their work understand how key 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 mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]	 Evaluate I can explain strengths and weaknesses of existing products I can evaluate my work accurately against my own design criteria I can discuss and describe well known designers and inventors and their work Food Could use QCA 5B Bread, and pizza making – link Romans I understand all sections of the Eat Well plate and why they differ in size I can weigh ingredients to the nearest gram accurately I understand that different foods are produced in different areas of the world and give some of the reasons for this

 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 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. 	I understand that food is processed into different ingredients e.g. Milk into butter
Key Vocabulary and information: Annotated diagram – labelled drawing Appearance – way it looks Brittle – breaks easily Card – thick paper Components – parts Cross-section – view of object cut through Design – create a plan Design process – identify need, design, plan, make and evaluate Dismantle – to take apart Enlarged view – made bigger to see more detail Equipment – tools and materials needed Evaluation – assessment of how an artefact functions compared to its specification Exploded diagram – blown apart picture to show joins Final design – the chosen one to produce Fold – double a material against itself (mountain fold V, fan fold – V from a point, U fold) Function – intended use of a product Graphics – use of words and pictures to communicate Ingredient – a part in food technology, recipe (the ingredients needed to make a 'dish') Investigation – trying things out Landscape/portrait Malleable – can be worked into different shapes/bent, Rigid – not flexible Mark out, measure, mind map	 Building on from The knowledge and understanding of D&T children have gained in Year 3. Design, make and evaluate: Mechanical systems (levers and linkages) and printing blocks to produce a pop-up book of a cave man story Shell/frame structures to produce structures and bridges Cooking and nutritional skills to produce sandwich snacks What comes next Further development of knowledge, understanding and skills needed to engage in an iterative process of designing and making.

Mobile – hung and blown by air currents
Mock up – a temporary model
Modify – to alter/change
Net – opened out box etc.
Opaque (cannot see through), translucent (let light through but
image is not clear), transparent (see straight through – like glass)
Questionnaire
Risk assessment – identify hazards/dangers and act accordingly
Sketch – a rough drawing
Specification – what a product must do
Template – a shape drawn to help cutting out
Texture – surface 'quality' eg. Rough
3 dimensional – has height, width and length
2 dimensional – has height and width only

