

## **Design and Technology**



Use lolly sticks/card to make levers and linkages.

Create nets

## Year 3 National Curriculum Aims and Objectives 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 • 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 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 ٠ ingredients are grown, reared, caught and processed Technical knowledge: Apply their understanding of how to strengthen, stiffen and reinforce more complex structures ٠ understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] ٠ 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 Summer Autumn Spring **Construction / Technical Knowledge Construction / Technical Knowledge** Food – Nutrition / Hygiene Make structures more stable by giving them a wide Develop sensory vocabulary/knowledge using, smell, Make structures more stable by giving them a wide taste, texture and feel. base. base. Follow instructions. Prototype frame and shell structures. Prototype frame and shell structures. Use glue gun with close supervision (one to one). Use glue gun with close supervision (one to one). Make healthy eating choices from and understanding Choose materials based on their functional properties of a balanced diet. Choose materials based on their functional properties Join and combine a range of ingredients e.g. snack and aesthetic qualities and aesthetic qualities **Textiles/Sheet Materials** Sheet Materials foods. Create a simple pattern. Work safely and hygienically. Cut slots. Understand the need for patterns. Prepare and cook a range of predominately savoury Cut internal shapes.

dishes using a range of cooking techniques.