

## Year 6 Design Technology

### Food - Muffins

Investigate and carry out research on existing products to include personal and cultural preferences, sourcing of ingredients and their production and key chefs  
Carry out focused tasks including practising measuring, cutting, shaping and combining ingredients  
Use utensils and equipment safely and hygienically  
Plan and design a product using annotated drawing and step by step plans  
Make product  
Evaluate their final product against design criteria and others' work.

### Electric systems - Crumble Electronics

Investigate a range of products that use computer control  
Carry out focused tasks including recapping measuring, marking out, cutting and joining skills using construction materials  
Practise making electrical connections  
Recap making electrical circuits where a device is controlled by switches  
Use relevant computer activities to write computer programs and test these  
Plan and design a product using annotated sketches and diagrams.  
Provide a step by step plan to achieve the design  
Make high quality products that can be worked automatically by a computer control system  
Test product and refine as needed  
Critically evaluate the product against criteria and others work

### National curriculum requirements (whole KS2)

Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design  
Select from and use a wider range of tools and equipment to perform practical tasks 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  
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  
Apply their understanding of how to strengthen, stiffen and reinforce more complex structures  
Understand and use mechanical systems in their products  
Understand and use electrical systems in their products  
Apply their understanding of computing to program, monitor and control their products.  
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,

