Autumn	Spring	Summer
Year 4 NC objectives	Year 4 NC objectives	Year 4 NC 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 range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
- Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their 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.

## Technical knowledge

- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.
- Understand and use mechanical systems in their products [gears, pulleys, cams, levers and linkages].
- Understand and use electrical systems in their products [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 principles of a healthy and varied diet, prepare and cook a variety of dishes using a range of techniques and understand seasonality and how a variety of ingredients are grown, reared, caught and processed.

Year 4 Key Learning Cooking and Nutrition: Moroccan Stew	<b>Year 4 Key Learning</b> Electronics: Torches	<b>Year 4 Key Learning</b> Textiles: Stuffed Toy
<ul> <li>Understand the importance of a balanced and healthy diet, knowing the significance of a variety of food and drink for healthy bodies.</li> <li>Investigate and evaluate African ingredients and understand ingredients can be fresh, pre-cooked or processed.</li> <li>Know the origins of some ingredients.</li> <li>Select and plan a recipe including ingredients, utensils and equipment.</li> <li>Understand safety and hygiene when preparing food.</li> <li>Choose and use a range of tools and techniques correctly.</li> <li>Evaluate the finished product against the design brief and suggest improvements.</li> </ul>	<ul> <li>Know and understand what an electrical conductor is.</li> <li>Explore and evaluate features of different types of torches.</li> <li>Know and understand what a switch is and its purpose.</li> <li>Create series circuits and understand how to locate and correct faults.</li> <li>Know the features of a torch.</li> <li>Generate realistic ideas, a design brief and criteria focussing on the purpose.</li> <li>Plan using annotated sketches or cross- sectional diagrams etc.</li> <li>Know that materials can be manipulated to improve strength and stability.</li> <li>Use appropriate tools and equipment.</li> <li>Evaluate the product against original design.</li> </ul>	<ul> <li>Investigate and evaluate existing products exploring and analysing different materials, techniques and design features used.</li> <li>Understand and practice sewing techniques that can be used for different purposes.</li> <li>Design and plan using a template and identify a simple design-criteria.</li> <li>Understand the importance of finishing techniques to ensure the product is strong.</li> <li>Use a variety of materials and tools to add design features.</li> <li>Evaluate the product against the original design criteria and test how well it works in relation to the purpose.</li> <li>Suggest improvements to their finished product.</li> </ul>

ر ا	Balanced diet, carbohydrates, protein,	Torch, insulator, conductor, series circuit, components, cross-	Fabric, soft toy, running stitch, whip stitch, pattern
la			template, design brief and criteria, mark out, applique,
nq	criteria, rehydrate, garnish, presentation		embellishment, embroidery
20			
<b>&gt;</b>			