Design and Technology UKS2 – Cycle B

Throughout the year the children will cover a variety of aspects of the design and technology curriculum to ensure all children:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- critique, evaluate and test their ideas and products and the work of others
- understand and apply the principles of nutrition and learn how to cook.

Autumn 1	Battle of Britain
	Food – Seasonality and Celebration
	To design and make bread for a celebration, using seasonal ingredients.
	Developing, planning & communicating ideas
	Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and
	exploded diagrams.
	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for
	purpose.
	Working with equipment, materials & ingredients to make quality products
	Confidently select appropriate equipment, materials, ingredients and techniques and use them.
	Use equipment safely, hygienically and accurately.
	Evaluating processes & products
	To carry out a sensory evaluation of products/ ingredients.
	Evaluate their work both during and at the end of the assignment.
Spring 2	Earth, Sun & Moon
	Textiles- Combining different fabric shapes.
	Design and make a product using fabric, sewing and fastenings.
	Developing, planning & communicating ideas
	Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and
	exploded diagrams, prototypes, pattern pieces.
	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for
	purpose.
	Working with tools, equipment, materials & components to make quality products
	Confidently select appropriate tools, materials, components and techniques and use them.

	Use tools safely and accurately. Evaluating processes & products Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests. Evaluate their work both during and at the end of the assignment.
Summer 2	Climate Change
	Electrical systems- Monitoring and control
	Electrical circuits & components
	 Working with tools, equipment, materials & components to make quality products Confidently select appropriate tools, materials, components and techniques and use them. Use tools safely and accurately. Use Crumble to program a device and control an electrical product. Evaluating processes & products Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests. Evaluate their work both during and at the end of the assignment Developing, planning & communicating ideas Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces. Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose.