Stukeley Federation Design and Technology UKS2

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	**<u>Battle of Britain</u>** **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. • design & make a moveable object (plane / creature etc.)
Spring 2	**<u>Earth, Sun & Moon</u>** **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. • sewing a pencil case
Summer 2	**Climate Change (1 session linked to science)** **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. • electrical circuits & components