The Pebblebed Hub of the Jubilee with Pebblebed Federation

Subject Intent Statement for Design Technology

Our Vision

I have come to you that you will have life and have it to the full
John 10:10

Intent

In the Pebblebed Hub of The Jubilee with Pebblebed Federation, the aim of Design and Technology teaching is to inspire the children to use their creativity and imagination to design and make products that solve real and relevant problems. Through the design and technology curriculum, children will learn how to take risks and become resourceful and innovative.

The Design and Technology curriculum is designed to encourage pupils in all aspects of designs technology from the planning and designing stage through to construction and evaluation. This includes food hygiene and nutrition.

Through our curriculum, the children will develop the creative, technical and practical expertise needed to perform everyday tasks confidently.

Children will gain an understanding and the skills needed to make high-quality prototypes and products and will develop a deep knowledge and understanding of nutrition and will learn how to cook using a range of local ingredients, sourced from our local Devon farms.

Implementation

Design and Technology is taught through the Cornerstones Curriculum Maestro projects as this ensures that the children in our school will cover all of the objectives in the National Curriculum. These are taught to an appropriate level depending on the age of the children. This ensures that the skills and knowledge that the children acquire is built upon year by year and that it is sequenced appropriately to maximise learning for all of the children. Each project begins with an exciting 'hook' activity that allows them to quickly engage with the topic.

All teaching of DT will follow the design, make and evaluate cycle and each stage should be rooted in technical knowledge and vocabulary.

In Key Stage 1 children will learn through creative and practical activities whilst being taught the knowledge and skills required to progress through the design and technology curriculum. They will use a range of tools and develop the skills required to select the correct tool for the task and a knowledge of materials and their properties. The children will plan their ideas through models, speech and drawing and will learn to evaluate their designs against their design criteria.

In Key Stage 2, the children will analyse the effectiveness of a range of products and their suitability for purpose. They will plan their projects through discussion, annotated sketches, diagrams, prototypes and computer-aided design. The children will select appropriate tools and materials from a wide range according to their functional properties for the project they have planned. The children will evaluate their ideas and products against their own design criteria and learn to accept constructive criticism and use this to their advantage and as motivation to improve their design. The children will study a local chef or designer and will understand the impact of this individual on their local environment.

Children are given the opportunity to go on trips to local areas of interest including Farm Wise where they will learn about food, nutrition and where their food comes from.

Intended Impact

By the time the children leave the Pebblebed Hub they will have developed:

- A passion for design technology, and an enthusiastic engagement in learning.
- An understanding of how key events and individuals in design and technology have helped shape the world that it is today.
- The ability to evaluate their ideas and products against their own design criteria.
- The readiness to take on board the views of others to improve their work.
- A passion for design and creating new products.
- An understanding of nutrition and what a balanced, healthy diet includes.
- The skills to plan a project and complete it from the innovative stage through to making and evaluating.
- The knowledge required to select the correct tools, equipment, materials and ingredients needed to complete a project.
- The understanding to manage risks when manufacturing products safely and hygienically.
- The inspiration to problem solve and find solutions for their local environment.