Meare Village Primary School

'Four walls that hold tomorrow'

OVERVIEW OF DESIGN AND TECHNOLOGY

Why this subject is important in our school:	**How this subject is organised in our school:**
At Meare, children receive a design and technology curriculum which allows them to exercise their creativity through designing and making. The children are taught to combine their designing and making skills with knowledge and understanding in order to design and make products. Our DT lessons allow children to apply the knowledge and skills learned in other subjects, particularly Maths, Science, Art and English. Children's interests are captured through theme-learning, ensuring that links are made in a cross curricular way. We want our curriculum to not only fulfil the requirements of the National Curriculum, but to inspire children to take up STEM careers and discover new and rewarding hobbies.	We follow the National Curriculum for Design Technology, supported by a clear skills and knowledge progression linked to our two-year rolling programme. This ensures that skills and knowledge are built on year by year and sequenced appropriately to maximise learning for all children. We use resources from various sources, including the Dyson Foundation, the Nuffield Foundation, and RIBA. Our teaching of DT follows the **design**, **make** and **evaluate** cycle: **Design:** Design is based in real life, relevant contexts, and planned by appropriate methods. **Make:** Children select from a wide range of tools, materials, and ingredients. **Evaluate**: Evaluations are in comparison to existing products and referenced to the design criteria. Our children also learn how key events and individuals have helped shape design and technology globally. At Meare, we recognise the importance of Computer Aided Design (CAD) and 3-D printing in STEM fields. All children at Meare learn 3D modelling using Tinkercad and 3D-print their products on the school's 3D printer. Pupils with a particular interest in this area are offered extra classes to develop these skills further. We utilize Google Classroom and Tinkercad studios to enable children to work collaboratively on design projects. This also enables a digital bank of children's work to be kept for assessment.

How we measure impact:

By the time children leave Meare they will have the following:

- A passion for the subject.
- An excellent attitude to learning and independent working.
- A thorough knowledge of which tools, equipment and materials to use to make their products.
- The ability to use time efficiently and work constructively and productively with others.
- The ability to apply mathematical knowledge and skills accurately.
- The ability to cook nutritious and tasty food.
- The ability to manage risks exceptionally well to manufacture products safely and hygienically.

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