**Curriculum Intent: Design Technology**  

**Broad and Balanced Curriculum**

At Earley St Peter’s, we aim to nurture pupils’ creativity and imagination by providing opportunities to design and create innovative, functional and appealing products like cam car toys and night lights as well as other projects including Roman temples, The Pyramids and bridges. By fostering confident and resilient learners, we enable children to critique and evaluate their own and others' ideas and products. We recognise the importance of equipping pupils with the expertise needed to establish strong foundations for successful participation in an increasingly technological world. Our curriculum builds and applies a repertoire of knowledge, understanding and skills, enabling pupils to design and make high-quality prototypes and products for diverse users. Pupils also broaden their understanding by applying principles of nutrition and cooking.

**Planning and Implementation**

In Key Stage 1 pupils learn to design purposeful, functional and appealing products such as a chair for a baby bear and ferris wheels. They develop their use of tools to perform practical tasks and experiment with a variety of materials. Pupils evaluate products and suggest improvements, gaining an understanding of how to make structures stronger and more stable. They explore mechanisms such as levers and sliders and learn to prepare and create dishes that support a healthy, balanced diet.

In Key Stage 2 this progresses and the children continue to communicate their ideas through annotated sketches, exploded diagrams and prototypes. They use a broader range of tools, equipment, materials and components to perform practical tasks including safely marking out, cutting and joining with accuracy. Pupils continue to evaluate their ideas and products, considering the views of others to refine their work. They learn to strengthen, stiffen and reinforce materials to create more complex structures and incorporate mechanical and electrical systems into their designs. Pupils also develop cooking skills through a variety of techniques to prepare and cook balanced meals.

**Impact**

Through our design and technology curriculum pupils develop creativity and imagination, gaining practical skills in construction, sewing and cooking. They learn to problem-solve and evaluate work constructively, fostering confidence and resilience. The curriculum ensures all pupils, including those who are disadvantaged or with SEND, are equipped with the skills and knowledge to thrive in an ever-changing world.