



# Design Technology Curriculum Statement



## Intent

Our Design Technology Curriculum incorporates the skills and knowledge outlined in the National Curriculum. It has been designed to challenge our pupils to be creative and imaginative and to encourage them to become problem solvers. Our topic based curriculum encourages our children to apply the skills and knowledge taught and acquired in other curriculum areas e.g. Science and Mathematics to their Design Technology work. Effective teaching will enable our children to develop their creative, practical and technical skills so that they are able to make high quality prototypes and products. We will also provide the children with opportunities to learn about nutrition and to cook/bake simple food products for themselves. We believe that it is vital to widen and build the children's technological vocabulary, alongside their skills and knowledge, in order to provide them with a language to discuss and evaluate their work.

## Implementation

Design Technology is taught through a topic based /creative curriculum. The curriculum is sequenced so that skills and knowledge can be built upon and transferred to other areas of learning.

In Key Stage 1 our children are presented with lots of different opportunities to design and make products in response to challenges set by their teacher. When designing and making, the children will be encouraged to talk about their ideas and create 'mock ups' when/where appropriate. They will be taught how to select and use a range of tools and equipment safely and with increasing accuracy. They will be encouraged to select materials and components through exploration of their properties and characteristics and will be encouraged to evaluate and refine their ideas as they work. When cooking, the children will be taught about where food comes from and will learn about the importance of a healthy diet.

In Key Stage 2 our children will use research and design criteria in the design stages of their work to support their creations/ideas. They will use annotated sketches to record their ideas and will use a variety of tools and equipment to bring their ideas to life. The children will explore the properties of materials and components so that they are able to make informed choices when selecting them for their projects. They will have the opportunity to evaluate both existing products and their own work and will be encouraged to suggest improvements. In cooking and nutrition, the children will further their understanding of the importance and understanding of a healthy and varied diet and will have the opportunity to create and cook their own recipes.

Pre and post topic assessments are completed in order to show progress and to highlight any knowledge gaps and a 'fast five' activity is used to start off every topic lesson in order to re-inforce and consolidate knowledge from the previous lesson. Teachers refer back to previous learning and share with the children how their learning will be developed and built upon in the next lesson/class so that facts and knowledge can be connected, rather than being taught in isolation. Design Technology trackers are completed at the end of each topic in order to record which children are working below, at or above expected levels and interventions are delivered when needed. Work is differentiated to enable children of all abilities and backgrounds to access the Design Technology Curriculum.

## Impact

Our children will be inquisitive young people who possess the skills and knowledge needed to design and create high quality end products. They will understand the importance of a healthy, balance diet and will know where food comes from. The children will work safely with a range of tools/equipment and will be able to discuss and evaluate their work using a growing technical vocabulary. Our children will possess the relevant skills and knowledge needed for the next stage in their Design Technology education.

