

## Intent

*Why do we teach this?*

At Caister Primary Federation, 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 a product. Skills are taught progressively to ensure that all children are able to learn and practice in order to develop as they move through the school. Evaluation is an integral part of the design process and allows children to adapt and improve their product, this is a key skill which they need throughout their life. D&T allows children to apply the knowledge and skills learned in other subjects, particularly Maths, Science and Art. Children's interests are captured through theme learning, ensuring that links are made in a cross curricular way, giving children motivation and meaning for their learning. Children will learn basic cooking skills.

## Implementation

*What do we teach? What does this look like?*

In Design Technology we follow the Cornerstones Curriculum Maestro which ensures progression of D.T. skills throughout the year groups and provides interesting, practical and high quality D.T. lessons. DT is taught through a variety of creative and practical activities, pupils are taught the knowledge, understanding and skills needed to engage in the process of exploring current work and designs, designing and making their own, and evaluating the effectiveness of their own model. Our children experience and make an informed choice when using a wide range of materials, structures, mechanisms and circuits, and test and explore how these can be improved. They are given the skills to generate and communicate ideas and evaluate their own and others' work.

Children will be taught how to cook and apply the principles of nutrition and healthy eating which is a crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life. Our progression document clearly shows staff what prior learning has occurred before new concepts are taught. This will enable staff, to pitch lessons correctly and challenge pupils beyond the curriculum where necessary.

The key skills we teach the children are:

- ☑ sewing and textiles
- ☑ cooking and nutrition
- ☑ electrical and mechanical components
- ☑ Using materials

## Impact

*What will this look like?*

The Design and Technology curriculum is designed to ensure pupils are able to explore, design, make and evaluate a product that solves a problem. The progression document provides clear end points for pupils at each stage of their learning and enables teachers to provide opportunities for pupils learning which are pitched appropriately.

Formative assessments are used to assess the children's Design and Technology knowledge and understanding throughout a project through the use of questioning, marking and verbal discussions between pupils and teachers. Formative teacher assessments are made at the end of each lesson taught with a topic and recorded on Cornerstones Curriculum Maestro, this contributes to the summative assessment of the Design and Technology curriculum for each child. These assessments impact on planning as lessons are then adapted where required to ensure support can be put in place where needed. This then contributes to future successes for the children as work is tailored to their needs and misconceptions are addressed.

By the time children leave our school they will:

- An excellent attitude to learning and independent working.
- The ability to use time efficiently and work constructively and productively with others.
- The ability to carry out thorough research, show initiative and ask questions to develop an exceptionally detailed knowledge of users' needs.
- The ability to act as responsible designers and makers, working ethically, using finite materials carefully and working safely.
- A thorough knowledge of which tools, equipment and materials to use to make their products.
- The ability to apply mathematical knowledge and skills accurately.
- The ability to manage risks exceptionally well to manufacture products safely and hygienically.
- A passion for the subject.