DT Curriculum Statement

Intent – What we are trying to achieve?

- At Orchard, it is our intent that Design and Technology encourages children to learn to think and intervene creatively to solve problems both as individuals and as members of a team.
- We encourage children to use their creativity and imagination, to design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values.
- We aim to, wherever possible, link work to other disciplines such as mathematics, science, engineering, computing and art.
- The children are also given opportunities to reflect upon and evaluate past and present design technology, its uses and its effectiveness and are encouraged to become innovators and risk-takers.

Implementation – How do we translate our vision into practice?

- At Orchard children receive a design and technology curriculum which allows them to exercise their creativity through designing and making.
- 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.
- All teaching of DT follows the design, make and evaluate cycle. Each stage is rooted in technical knowledge.
- The design process is rooted in real life, relevant contexts to give meaning to learning. The children are taught to combine their designing and making skills with knowledge and understanding in order to design and make a product. Pupils use research and develop design criteria to design for a purpose and communicate their ideas through a range of mediums.
- While making, children are required to use a wide range of tools and equipment with accuracy and use a wide range of materials and components according to their qualities
- 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. Pupil evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.
- D&T is taught in a cross-curricular context and 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.

Impact – What is the impact of our curriculum on the students?

We ensure the children:

- Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.
- Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users and critique, evaluate and test their ideas and products and the work of others.
- Understand and apply the principles of nutrition and learn how to cook.
- Children will design and make a range of products. A good quality finish will be expected in all design and activities made appropriate to the age and ability of the child.
- Children learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world.

- High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

By the time children leave our school they will also have developed:

- 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.