

Design and Technology

Intent

At Stanton St Quintin Primary School we feel it is important for children to be exposed to and have the opportunity of learning a wide range of skills across the breadth of the D&T subject. Children should have the opportunity to experience Food, Materials, Textiles, Electricals and Electronics, Computing, Construction and Mechanics. Through these areas, they will apply their design skills also. Stanton St Quintin aims to foster an excellent attitude to learning and independent working. In D&T we encourage children to have original concepts and the willingness to take creative risks to produce innovative ideas and prototypes. The purpose of D&T is to create a useful product, therefore; it is important to us that our children have the ability to carry out thorough research, show initiative and ask questions to develop an exceptionally detailed knowledge of users' needs. Linking with our ethos on citizenship, we encourage children to be responsible designers and makers, working ethically, using finite materials carefully and working safely. D&T must be collaborative; children should have the ability to use time efficiently and work constructively and productively with others. Children must have a thorough knowledge of which tools, equipment and materials to use to make their products. They should be able to manage risks exceptionally well to manufacture products safely and hygienically. D&T at Stanton St Quintin encourages children to apply mathematical knowledge to solve problems and develops a passion for the subject. The subject leader, staff and pupils must have a knowledge of up-to-date technological innovations in materials, products and systems so that the subject remains relevant.

Implementation

Over the course of the year, long term plans ensure the coverage of the six main subjects within D&T: Food, Materials, Textiles, Electricals and Electronics, Computing, Construction and Mechanics. These are linked to topics where possible, to support cross-curricular links. Through the use of milestones, there is a clear progression for children from EYFS to Year 6.

D&T is taught in blocks determined by the class teachers and based on the topic and D&T project. For example, it is appropriate if focusing on Food to spend a whole day on this, rather than spreading the teaching throughout the term. Whereas a sewing project within Textiles may work better done over the course of several weeks. Where appropriate, there may be whole school focuses on D&T. Class trips may also occur to support learning.

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts, such as the home and school, gardens and playgrounds, the local community, industry and the wider environment. When designing and making, pupils should be taught to research, design, make, evaluate, apply technical knowledge and (where appropriate), apply an understanding of cooking and nutrition. They will master practical skills, improve their designs and take inspiration from design throughout history. Projects will be purposeful and engaging so that pupils develop a passion for the subject.

Resources are sourced at the beginning of each term to ensure that staff can teach lessons effectively. Children are consulted about materials required during the design process to foster creativity, responsibility and ethical choices. Milestones are shared with children (where appropriate) to help them become responsible for their learning and aid assessment of progress.

Risk assessments for any tool use are conducted and shared with the staff and pupils.

The subject leader will ensure that all staff have the opportunity to develop their subject knowledge through courses and in-house training.

Impact

At Stanton St Quintin Primary School, learners will:

- Master practical skills
- Have the skills to design, make, evaluate and improve products
- Take inspiration from design throughout history
- Build on and develop their skills as they progress through the school.
- Have knowledge of all four learning areas

Children will be assessed throughout the year using milestones linked to the National Curriculum objectives. This progress is reported to parents, the subject leader and the headteacher at the end of the year in the individual children's End Of Year Report. There is no requirement for sharing this data with Wiltshire Council. We monitor the impact of our D&T provision through termly teacher assessments, lesson observations, pupil voice discussions and D&T evidence in children's topic books.

