

Technology Curriculum

Intent (Curriculum Design)

Our intent at Larkspur Primary School is to provide a rich Design and Technology curriculum across all year groups. We aim to teach a unit of Design and Technology in all year groups at least once per term. These units focus on: **food technology** and nutrition, **electricity**, **mechanisms**, **structures** and **textiles**. Wherever possible, cross curricular links are made to ensure children get the most out of their learning experiences.

We aim to develop children's **creativity**, **technical** and **practical expertise** so that they can perform everyday tasks confidently. It is important that children are given opportunities to build and apply a repertoire of knowledge, understanding and skills so they can create **high-quality prototypes and products**. We hope that when children leave us they are equipped to participate successfully in an increasingly technological world.

Implementation (How its delivered across the school)

Design and Technology is a crucial part of school life and learning. We are dedicated to the teaching and delivery of an exciting Design and Technology curriculum where children may experience things for the very first time. This subject allows opportunities for children to learn practically and apply their imagination and creatively in a purposeful way. Children learn to take risks and how to become reflective, resilient learners whilst learning how Design Technology impacts everyday life and the wider world.

Part of implementing an effective Design and Technology curriculum is encouraging children to work collaboratively with others. Collaborative work in Design and Technology develops mutual respect for the differing opinions, abilities and beliefs of others. It also helps children to respect their environment and the health and safety of themselves and others. They learn to appreciate that their ideas and opinions may differ to others and also learn to show tolerance. Children are encouraged to work in a democratic way by listening to others and sometimes accepting the ideas of others may be more suitable than their own to create the most effective product.

Design and Technology units of work cover the following areas over the course of the year: Food, Electricity, Structures, Textiles, Mechanisms.

From Early Years to the end of Key Stage 2, we aim to provide a progressive scheme of work where children will acquire new skills each year built upon those previously taught.

Impact (What we expect to see/assessment)



The impact of our design and technology curriculum can be seen not only in our children's portfolios but also through classroom displays and the school environment.

Knowledge, skills and understanding is measured against our progressive skills and vocabulary continuum.

We measure the impact of our curriculum through the following methods:

Summative assessment of pupil discussions about their learning - pupil voice helps shape our curriculum provision.

Images of the children's practical learning.

Interviewing the pupils about their learning (pupil voice).

Pupil's work is scrutinised and there is the opportunity for a dialogue between teachers to understand their class's work.

Annual reporting of standards across the curriculum.

Classroom Resourcing

- Classroom based unit boxes are topped up when needed and provide the teacher with the resources needed to deliver their unit of work.
- Opportunities for cross curricular learning are facilitated through curriculum resourcing e.g. junk model materials, open access to resources e.g. sewing, cookery, circuit resources.
- The ICT suite is used to support the development of children's design and construction, matching programmes to help develop new digital skills e.g. Coding, Raspberry Pi etc.
- Year group skills and vocabulary identified and shared in classroom.

Cross Curricular Opportunities

- Links through topic work to other subject areas made when appropriate.
- Opportunities to share and market their creations with other students/the Larkspur community as part of the evaluation process.
- STEM sessions linking science, technology, engineering and maths with Newcastle Uni and Success4All.

