



Subject Overview - Design & Technology

Aim high & be a Star

Our curriculum

The curriculum is built on the foundation that knowledge will build on knowledge so that children know and remember more over their school journey. To achieve this, the curriculum must be grounded in educational research to ensure that it is a driver to success. The overview below states how our history curriculum achieves this.



Teaching and Learning Cycle

The sunshine model outlines the effective delivery of information over the course of a lesson. It allows for recapping of prior knowledge; the sharing of information; the use of assessment to check understanding; the opportunity to practise whilst being supported through scaffolding and the review of learning which will inform the next steps in learning. This cycle of learning should be viewed alongside the Aspire values and Aspire learning skills.



Purpose

At Greenways Primary Academy, Design and Technology (DT) is a practical subject. Pupils use their creativity and imagination to design products that solve real and relevant problems within a variety of contexts. Pupils are taught how to work as a team and solve problems collaboratively. They draw on their knowledge of mathematics, science, engineering, computing and art and apply a wide range of subject knowledge. Through the evaluation of past and present design and technology, they develop a critical understanding of how it fits into their daily life and their future job aspirations.



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Aims

To offer a broad and ambitious curriculum using the National Curriculum as the basis:

- To provide pupils opportunities to safely use and explore a variety of materials, tools and techniques.
- To enable pupils to share their creations.
- To equip pupils with the creative, technical and practical expertise needed to perform everyday tasks.
- To provide opportunities for pupils to work collaboratively on innovative projects.
- To build and apply a repertoire of knowledge and understanding in order to design and make high-quality prototypes and products for a wide range of users.
- To critique, evaluate and test their ideas and products and the work of others.
- To understand and apply the principles of nutrition and learn how to cook.

Dashboards

D&T dashboards are created for KS1 & 2. These year group specific documents provide teachers with all that they need to deliver the subject successfully and progressively year on year.

Within dashboard documents, there is clear guidance in unit progression and outcomes for the pupils. Assessment criteria for each technical element within the D&T NC is outlined and teachers can adapt teaching and learning tasks to support children as required, knowing where they have come from and where they are working to.



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National Curriculum & Planning

In Design Technology, we follow the National Curriculum aims [National Curriculum - DT](#).

We believe that the unit outcomes must have a purpose and therefore specific core knowledge must be taught to ensure all children have learning that is built upon year on year. Each D&T unit has core knowledge and vocabulary that teachers teach explicitly to the children and this is practiced and rehearsed as part of the assessment process.

D&T coverage is outlined on dashboard documents which supports teachers in understanding the planning sequence and progression of knowledge across different year group units.

Assessment

Teachers' main assessment of pupils' learning is through formative assessment within lessons.

Assessment of the children's work and their acquisition of knowledge will be made using:

- Design Technology books
- Outcomes based from tasks set
- Questions and answers
- Low stake quizzing
- Evaluations of their own and others' work
- Evaluating patterns of performance over time
- Discussion between individual children and teacher observation

Following each DT unit, teachers make a summative judgement based on the pupils' knowledge, understanding and outcomes presented by the children. Pupils will be assessed against the National Curriculum and against criteria specific to the unit they are working on. This information is recorded on a Core Knowledge Overview allowing our teachers and leaders to track and monitor the progress and attainment of individuals as they make their way through the school.