



Design and Technology Intent, Implementation, Impact

Intent

At Hagley Primary School, our children are given the opportunity to master practical skills such as food, textiles, electronics, structures and mechanisms. We want our children to have the ambition, confidence and technical expertise to thrive in a fast changing, interconnected and technologically rich world. Our high quality, ambitious and progressive curriculum starts in the Early Years and develops children's substantive and disciplinary knowledge through to Year 6.

We will achieve this through the process of designing, making, evaluating and developing technical knowledge, vocabulary and problem-solving skills. The Design Technology curriculum is carefully sequenced to ensure clear progression, as well as building on prior skills and knowledge and making links to other aspects of the curriculum such as Computing, Science and PSHE.

Implementation

At Hagley, we fulfil the National Curriculum requirements through the use of the implementation of the Kapow scheme for Design and Technology. The long-term plan identifies where the areas of structures, mechanisms, textiles, electrical Systems (KS2) and food and nutrition are taught throughout the school. The planning ensures progression of substantive knowledge and skills based on the aforementioned areas of Design and Technology. Each of the Kapow Design and Technology lessons show which National Curriculum attainment target(s) pupils are working towards during the lesson.

Substantive knowledge and disciplinary knowledge are mapped across year groups starting with the EYFS Development Matters framework to ensure clear progression. Key concepts and technical vocabulary are at the forefront of the planning in order to follow the Design and Technology process: design, make, evaluate. This is reflected in our learning environments on displays across the school.

At Hagley, the whole school approach to teaching and learning in Design and Technology involves all year groups, starting in the Early Years through expressive arts and design as well as discrete units of work. In Years 1-6, a Design and Technology unit of work will be taught discretely once a term which allows for more effective learning in which teachers can focus on teaching and developing DT skills, allowing children to develop their ideas and techniques. This may have links to other curriculum areas. Each unit of work includes a variety of retrieval



activities linking to previous learning to help build upon their existing schema which will allow them to embed taught concepts into their long-term memory.

Children will explore a range of 'Diverse Designers' to understand how design and technology are applied in real-world contexts. Each designer will be thoughtfully linked to the topic being taught during that half term.

We aim to ensure that Design and Technology is inclusive and fully embedded across our whole school curriculum. We also seek to enhance learning through meaningful opportunities beyond the classroom—for example, in extra-curricular activities such as STEM Club and Textiles Club, where children engage with real-life design briefs and apply their Design and Technology skills to solve practical problems.

Impact

Children at Hagley Primary School enjoy and value Design and Technology and know why they are doing things, not just how. Children will understand and appreciate the value of Design and Technology in the context of a rapidly changing world, including their personal wellbeing, the creative and cultural industries and their many career opportunities (this is reinforced through a Career Fair). Progress in Design and Technology is demonstrated through regularly reviewing and scrutinising children's work to ensure that progression of skills is taking place.

For example:

- Completing book looks, especially over time as the children gain skills and knowledge.
- Conducting pupil voice to understand what the children know and how they feel about Design and Technology.
- Ensuring that planning is following the cyclical process of: design, make and evaluate.

Children at Hagley will develop as creative problem solvers, both as individuals and as part of a team. This will be seen in them being able to talk confidently about their work, and sharing their work with others. Progress will be shown through outcomes and through the important record of the process leading to them.