



# CRADLEY CE PRIMARY SCHOOL

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## **Design Technology Intent**

At Cradley Primary School, Design and Technology (DT) forms an important part of the curriculum. It helps to prepare children for the developing world and encourages them to become curious and creative problem-solvers, both as individuals and as part of a team. DT stimulates creativity and imagination through problem solving and the production of quality products. At Cradley School it is incorporated into topic lessons and planning is carefully managed in order to ensure progression and full coverage of all aspects of the DT curriculum across the Key Stages. 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**

In **Key Stage 1** children model ideas by exploring materials including construction kits. They use a range of components including food ingredients and mechanical components. They prepare, assemble and finish these components and use techniques including those from art and design. Children develop technical knowledge such as how simple mechanisms work and how freestanding structures can be made more stable. They also learn food preparation techniques such as cutting, peeling and grating while preparing savoury dishes without using a heat source.

In **Key Stage 2** children model ideas using sketches and prototypes and share their ideas with their peers. They draw on research before generating innovative ideas. The range of materials and components used broadens as children progress through the Key Stage, and children work more independently to master techniques involving a number of steps. Finishing techniques including those from art and design are applied with increasing accuracy. Increasingly complex systems such as cams and electrical circuits are built, textiles products are made by joining a combination of fabric shapes and recipes are adapted by adding or substituting ingredients. Projects are evaluated in order to identify strengths and areas for improvement.

Children are encouraged to think and work independently and collaboratively evaluating, extending and improving their ideas.

## **Impact**

Through the evaluation of past and present design and technology, they will develop a critical understanding of its impact on daily life and the wider world.

Progression in DT is assessed through work completed in pupils' topic books and by assessing practical skills and finished products. Ability and attitude to DT assessments are recorded on the child's annual report to parents.