



# HILLSTONE PRIMARY SCHOOL

Design & Technology Policy

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### Intent:

Design and Technology is an inspiring, rigorous and practical subject. Design and Technology encourages children to learn to think and intervene creatively to solve problems both as individuals and as members of a team. At Hillstone Primary School we encourage children to use their creativity and imagination to design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. We aim to, wherever possible, link Design and Technology work to class projects. 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:

Through a variety of creative and practical activities, we teach the knowledge, understanding and skills needed to engage in an iterative process of designing and making. The children design and create products that consider function and purpose and which are relevant to a range of users. Children will design and make a range of products. A good quality finish will be expected in all design and activities made appropriate to the age and ability of the child.

When designing and making, the children are taught to:

#### Design:

- use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals/groups.
- generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional diagrams, prototypes, pattern pieces and computer-aided design.

#### Make:

- select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing, as well as chopping and slicing) accurately.
- select from and use a wide range of materials, ingredients and components, including construction materials, textiles and ingredients, according to their functional properties, aesthetic qualities and, where appropriate, taste.

#### Evaluate:

- investigate and analyse a range of existing products.
- evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.
- understand how key events and individuals in design and technology have helped shape the world.

### Technical knowledge:

- apply their understanding of how to strengthen, stiffen and reinforce more complex structures.
- understand and use mechanical systems in their products.
- understand and use electrical systems in their products.
- apply their understanding of computing to program, monitor and control their products
- Understand some of the ways that food can be processed and the effect of different cooking practices (including baking and grilling).

Key skills and key knowledge for D and T have been mapped across the school to ensure progression between year groups. The context for the children's work in Design and Technology is also well considered and children learn about real life products and consider a real purpose for their design. Design and technology lessons are often taught as a block to allow children to become fully absorbed in the design process.

## Planning And Our Creative Curriculum

At Hillstone Primary School work is based around a project. Each project incorporates a range of subjects including science, history, geography, art, ICT and PE, as well as many opportunities to link literacy and numeracy. D and T projects are linked to class projects or a special event (e.g. World Book Day) in order to give them purpose and relevance.

There is a programme of study for Design & Technology in place from Reception through to Year 6 that is taught through our creative curriculum planning. Bespoke Hillstone D&T planning guides are used to support teachers deliver their D&T lessons with these available for all teachers on our Staff Shared file. Information about coverage and progression within our D&T curriculum can also be accessed there. Children in the Early Years develop their early designing and making skills through activities related to objectives in the EYFS framework.

Teachers from EYFS to Year 6 will ensure full coverage of DT skills appropriate to their year group through the D&T projects planned.

## Children with SEND

We teach D and T to all children, whatever their need, in accordance with the school curriculum policy of providing a broad and balanced education to all children. D&T planning guides give suggestions and signpost relevant resources for SEND pupils.

## Delivery

- The children should experience planning, practical and evaluation activities on a regular basis throughout each topic. Children should be encouraged to view evaluation as a continuous process and adapt and refine their designs as they work.

- The D&T curriculum is arranged to develop skills and ensure children make progress year on year.
- D&T projects are organised ensuring progress and breadth.
- There should be regular opportunities for children to showcase their work and discuss how their products were made and how they work.

## Record Keeping, Assessment and Reporting

Formative assessment is used to guide the progress of individual pupils in Design and Technology. It involves identifying each child's progress in each aspect of the project, determining what each child has learned and what should therefore be the next step in their learning. Formative assessment is mostly carried out informally by the teachers in the course of their teaching and should be based on the identified assessment opportunities. At Hillstone Primary teachers make judgements when assessing their class at the end of a project. Teachers record their assessments using Insight and identify which children are working at the "expected" level or above or below. Throughout a unit of work children are asked to reflect on their learning and recall new and previous knowledge. This alongside children's own evaluations of their products helps to inform teacher's judgements at the end of a project.

## Monitoring

The D and T subject leader is responsible for monitoring the standard of children's work and for the quality of teaching in D and T. The work of the subject leader also involves supporting colleagues in the teaching of D and T, being informed about current developments in the subject and providing a strategic lead and direction for the subject in the school. Teaching and learning for D and T is monitored via A3 evidence pages, pupil voice, informal observations, photographic evidence of products. Each term teachers are asked to create an annotated evidence page using photographs and examples of children's work. These are then collated in the D and T evidence folder for that academic year. These evidence folders provide the basis of the D and T subject leader's monitoring. They also provide useful support for teachers when delivering D and T as they can be used for ideas and guidance, especially if a teacher is new or has not taught a year group before.

## Cooking @ Hillstone

At Hillstone we believe that children should be given the opportunity to develop healthy eating habits and gain vital life skills by learning how to prepare, cook and taste a wide variety of healthy ingredients and dishes. Through D and T children will be designing, making and evaluating their own healthy dishes. A food focused project is planned for every year group from EYFS-Year 6. In the EYFS children are able to explore food focused activities regularly throughout the year.

In addition to the D and T projects children at Hillstone are able to access opportunities for cooking and tasting healthy ingredients as our school Chef leads enrichment activities at various points in the year. These activities are intended to enhance the children's experiences of healthy eating and cooking skills and are carried out in addition to their D and T food focused projects.

The Hillstone allotment is often used as the source of fresh ingredients for our cooking activities. Through growing their own produce and then using it as part of their designs children gain an invaluable understanding of seasonality and where our food comes from.

## Health and Safety

Risk assessments for D and T activities can be found on the Staff Share file within the Design and Technology folder. These cover risks associated with using tools, kitchen utensils, sewing equipment and food hygiene. Teachers are expected to consider the risks associated with their planned project before undertaking any practical activities.