



Design and Technology

Design and technology is an inspiring and practical subject. Using creativity and imagination, pupils design and make products that solve real problems within a variety of contexts, considering their own and others' needs, wants and values. Design and Technology encourages children to use maths, science, computing and art. Children learn how to take risks, become resourceful, innovative, enterprising and reflective. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. Design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of our school.

Aims of Design and Technology

The National Curriculum for Design and Technology aims to ensure all pupils:

- Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products
- Critique, evaluate and test their ideas and products and the work of others
- Understand and apply the principles of nutrition and learn how to cook

Design and Technology in the Early Years Foundation Stage

Explore—a range of construction kits and a wide variety of materials e.g. play dough, clay, wire, wood, plastic, reclaimed materials, fabric and food, paints

Investigate—uses of different materials e.g. appropriateness of adhesives and chosen materials, cloth, cardboard, paper, bricks, soil, sand etc.

Communicate—using the correct language for and use of a range of tools and equipment

Design—using imagination and creating what they have imagined

Food—identify healthy food

Equal Opportunities and Inclusion

All pupils irrespective of ethnicity, religion, gender or ability are given equal access to the Design Technology curriculum where possible. Able, gifted and talented pupils will be supported through the subject developing analysis, thinking skills and evaluation techniques. Teachers aim to be sensitive to design problems linked to ethnicity and religion.

Key Stage 1 Content

Design

- design purposeful, functional, appealing products for themselves and other users based on design criteria
- generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology

Make

- choose and use a range of tools and equipment to perform practical tasks such as cutting, shaping, joining and finishing, including construction materials, textiles and ingredients, according to their characteristics

Evaluate

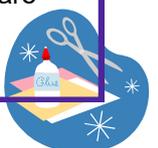
- explore and evaluate a range of existing products and their own ideas against their work

Technical Knowledge

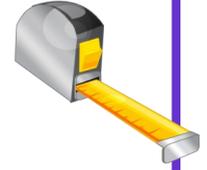
- build structures, exploring how they can be made stronger, stiffer and more stable
- explore and use mechanisms such as levers, sliders, wheels and axles in their products

Cooking and Nutrition

- use basic principles of a healthy diet to prepare dishes and know where food comes from



HEALTH AND SAFETY



There are significant health and safety issues relating to both the use of tools within the classroom and to health and hygiene when preparing food. We will ensure that all planning takes into consideration the risks associated with DT lesson and that any relevant risks identified are minimised. All children are made aware of the rules that apply whilst working within DT lessons and safe use of tools and hygiene will be clearly discussed with the child/group of children or class before the lesson begins.

To minimise the risks we will ensure:

- Pupils will be taught to use the correct tools for tasks.
- Tools must be used under the supervision of an adult.
- Pupils must consider health and safety issues and consequences and operate in a safe and hygienic manner.
- Risk Assessments will be included in the planning and reviewed annually.
- The DT leader will keep staff informed about the latest up to date Health and Safety updates and regulations.
- Pupils will be taught the dangers of using tools inappropriately.

How to help your child at home

- Exploring and experimenting with different materials.
- Finding different ways of fixing materials together.
- Thinking of your designs and working out on paper first what it would look like and the resources needed.
- PVA glue, sellotape, masking tape stapler, hole punch, stapler scissors are some of the tools needed to learn to use appropriately for a task.
- Examining designs of products you may buy at the shops.
- Talking about the different aspects of products



Useful Websites!

<http://www.teachingideas.co.uk/dt/contents.htm>

<http://primarygamesarena.com/Design-and-Technology>

<http://www.dtonline.org/>

Living Values

We are a Living Values school. Each month we link our chosen Values within each area of the curriculum. Through our Values and our **SMSC (Spiritual, Moral, Social and Cultural)** education we aim to enable pupils to develop their self knowledge, self esteem and self confidence. This is how we help pupils to understand right from wrong and to respect other cultures

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