



West End Primary School

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Design and Technology Policy

West End Primary School- A family school at the heart of the community.

Rationale

Design and Technology is all around us. It helps children learn about the world of work and make decisions about the world of the future. We believe at West End teaching Design and Technology helps children to develop life skills and become practically capable. Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. Children at West End learn a wide range of technical knowledge and learn how to evaluate, but most of all, they learn how to enjoy it!

Aims and Objectives

Design and Technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. 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. High- quality design and technology education makes an essential contribution to the creativity, culture, wealth and well- being of the nation.

The National Curriculum for Design and Technology aims to ensure that 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 for a wide range of users;
- 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.

Organisation

EYFS

In the Early Years Foundation Stage we provide opportunities for children to:

- Develop a curiosity and interest in the designed and made world through investigating, talking and asking questions about familiar products;
- Develop confidence and enthusiasm through frequent exploration of construction kits to build and construct objects, and activities for exploring joining, assembling and shaping materials to make products;

- Extend their vocabulary through talking and explaining about their designing and making activities.

In line with the National Curriculum programme of study and our West End Curriculum children in both Key Stages will meet the requirements through the teaching and learning skills of;

Key Stage 1

- Mechanisms
- Structures
- Food
- Textiles

Key Stage 2

- Structures
- Food
- Textiles
- Mechanical Systems
- Electrical Systems

Through these, children will learn a range of key learning skills demonstrating a progression of skills in Design and Technology;

- Developing, planning and communicating ideas.
- Working with tools, equipment, materials and components to make quality products (including food).
- Evaluating processes and products.

All design, make and evaluate assignments provide learning opportunities for developing creativity through designing skills such as generating, exploring, modifying ideas through drawing, modelling with materials and problem solving.

All projects should include the three types of activity:

- 1.** Investigative and Evaluative Activities (IEAs) where children learn from a range of existing products and find out about D&T in the wider world;
- 2.** Focused tasks (FTs) where they are taught specific technical knowledge, designing skills and making skills;
- 3.** Design, make and evaluate Assignments (DMEA) where children create functional products with users and purposes in mind.

These can be taught as discrete skills in Design and Technology books but are mostly implemented in a final outcome/ piece of work which fulfils a purpose. The Design and Technology book then moves up the next academic year so skills and progression are clearly identifiable.

West End Primary has a wide range of resources and materials to cover all of the above areas. There is a Design and Technology cupboard that is shared with the Art and Design resources and is accessible to teaching staff and teaching assistants. General resources are stored separately. There is also a designated Kitchen Area for small groups to work in. It has a fixed oven and a range of cooking equipment and utensils.

West End Primary has a whole school 'Design and Technology' where taught skills can be applied and each child will produce a final piece of work. This will enable every child in the school to have a piece of work displayed and showcased for parents.

Cross-curricular Opportunities

Teachers will seek to take advantage of opportunities to make cross-curricular links. They will plan for pupils to practise and apply the skills, knowledge and understanding acquired through Design and Technology lessons to other areas of the curriculum.

The use of ICT

Opportunities to use ICT to support teaching and learning in Design and Technology will be planned for and used as appropriate.

The role of the subject leader

- Inspire learning through bringing design and technology alive for our children;
- Monitoring of books to ensure the curriculum is being covered.
- Monitoring of books to ensure the progression of skills are covered relevant to each year group.
- To ensure teachers are supported in the teaching and learning of the subject.
- To ensure resources are replenished to enhance the effective teaching and learning of the curriculum.
- To ensure the Subject Action Plan is regularly reviewed.
- Explore ways to raise the profile of design and technology within school and make links with local businesses.

Assessment and Record Keeping

- Pupils will be encouraged to reflect on and evaluate their own and others' work. This will be documented in their Design and Technology books.
- Teachers will use formative assessment strategies, written and verbal feedback.
- Teachers will look at recorded work Eg. Models, photographs and written evidence when identifying the progression of skills.
- At the end of each term, teachers will use the key learning skills to make summative assessments on the attainment and progress made in relation to the National Curriculum.
- The assessment will be recorded as those working more than one term behind, one term behind, age related and greater depth. This will be recorded on the Assessment Overview and reported with parents/ carers at the end of the year.

Inclusion and Equal Opportunities

All children are provided with equal access to the Design and Technology curriculum and appropriate provision is made. All teaching and non-teaching staff at West End Primary School are responsible for ensuring that every pupil, regardless of gender, race, culture, background and ability have the opportunity to experience education at an appropriate and challenging level. Design and Technology needs to be taught with regards to pupil's abilities to ensure progress.

Health and Safety

Health and Safety is important, especially when working with specialised tools and equipment. Children should be given the appropriate instruction on the operation of all equipment before being allowed to use it.

Children need to be taught how to;

- Use tools and equipment correctly;
- Recognise hazards and risk control;
- Be careful and understand that their actions can affect others.

Children should be;

- Strictly supervised at all times when using equipment;
- Taught to respect the equipment and keep it stored safely when not in use;
- Taught to recognise and consider hazards and risks and to take action to control these risks, having followed simple instructions.

Food Hygiene

- Pupils and staff will undertake appropriate handwashing and other hygiene related activities prior to preparing food.
- Pupils and staff must wear aprons when cooking.
- All long hair must be tied back.

Glue Guns

- Key Stage 2 children should use low temperature glue guns under direct supervision. This is at the discretion of the class teacher.

Craft Knives

- Key Stage 2 children may use cutting equipment with a safety ruler at the discretion of the class teacher. One to one adult supervision is required at all times.

Sawing

- Bench hooks and clamps must be used when sawing any material.
- Safety goggles must be worn.
- Any loose items of clothing or hair must be tied back.

Any risk assessments should be carried out by the class teacher if deemed appropriate. The school's proforma should be used. A signed copy of the risk assessment should be placed in the relevant Risk Assessment Folder on the staff server.

Signed: R Armer

Design and Technology Subject Leader

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