**CESTRIA PRIMARY SCHOOL**

**Design and Technology Policy and Guidelines**

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**Rationale**

Design and Technology prepares children to participate in tomorrow’s rapidly changing technologies. It calls for them to be creative problem solvers, as individuals and as members of a team. It is a practical activity which spans the curriculum, drawing on and linking a range of subjects. It involves developing ideas in response to needs and applying practical skills in order to design and make quality products fit for their intended purpose.

In our Design Technology lessons, we strive to teach every child new skills that build on prior learning. Using the Kapow scheme, we ensure full coverage of the National Curriculum from Y1 to Y6 offering sequential lessons and progression through the key areas which are covered in each year group: Structures, Mechanisms, Textiles, Cooking and Nutrition with Electrical Systems and Digital World beginning in KS2. Children in EYFS will cover a range of activities, with reference to the Early Learning Goals (Creative Development), which will be a foundation for the National Curriculum. D.T is taught throughout the school in classrooms and in our Invention shed, where we adopt a practical approach to teaching and learning, and encourage evaluation and critical thinking.

**Aims**

1. 1. To implement fully the requirements of the National Curriculum Design and Technology document for all children in the school.
2. 2. To develop skills by focusing on the three key elements of Materials, Mechanisms and Safety by incorporating:-
* focused practical tasks
* product evaluation and investigation
* processes of designing and making
1. 3. To stimulate curiosity and interest in the creative world.
2. 4. To develop an interest and enthusiasm for designing and making for children of all abilities through enjoyable, motivating and meaningful activities.
3. 5. To develop children’s confidence and skill in selecting and using a range of tools and materials purposefully.
4. 6. To develop an ability to criticise constructively and evaluate their own ideas and products and those of others.
5. 7. To develop children’s use of design vocabulary when talking about their work.

**Methods of Organising Teaching and Learning**

The children will undertake design and technology activities each term.

Design and Technology lessons will involve a combination of whole class, group and individual teaching. During our weekly Immersive Days, KS2 children will have the opportunity to work with the teacher in the classroom and with support staff in the Invention Shed.

**Teacher’s Role**

To aim to give every child the opportunity to experience success by structuring tasks to suit the child’s needs.

Provide focused tasks that develop a range of techniques, skills, processes and knowledge through topic work.

To provide a working environment where the children are aware of safety issues which apply when working with tools.

**Role of the Subject Coordinator**

The subject coordinator will liaise with, and support other staff members in delivering the National Curriculum.

To monitor Design and Technology within the school e.g. subject scrutiny.

To attend relevant inset courses, keep up to date with new developments and inform staff.

To audit resources and equipment regularly, ensuring resources are available and appropriate to the needs of the staff.

To ensure that Design Technology keeps an appropriate profile within the school e.g. through displays and carrying out curriculum walks.

**Assessment**

At the start of each lesson we recap our previous learning through retrieval tasks and discussion.

We work in 6 week blocks to recap and practise old skills and to learn new skills.

At the end of every unit we have an assessment quiz and knowledge catcher to assess pupil new knowledge / progress they have learnt.

**Resources**

Specific tools and equipment are located in the Invention Shed. Resources will be constantly reviewed and updated, within the restraints of the school budget, to meet National Curriculum demands.

**Equal Opportunities**

The school’s aim is to provide for all children to achieve, regardless of gender, social and cultural backgrounds, disability or special needs. Work will be planned so that all children can take part in lessons fully and effectively.

**Health and Safety**

Teachers will be taught the safe use of tools and equipment and how to take steps to control risks.

Children will be strictly supervised in their use of equipment at all times.

Glue guns will only be used under adult supervision.

Bench hooks and clamps must be used when sawing any material; safety goggles must be worn and any loose items of clothing/hair must be tucked in.

**Food Hygiene**

Children and staff will take care to undertake appropriate hand washing and other hygiene related activities prior to preparing food.

Children and staff working with food will wear aprons designed for cooking.

Cooking equipment will be washed up in the staffroom and not in classrooms.

**This policy will be reviewed annually**