

Kings Road Primary School

Design Technology

Introduction

Design and Technology is an exciting, innovative Foundation subject which is embedded into our Ignite curriculum at Kings Road. Knowledge and skills are progressively taught and developed from nursery through to year 6. Design and Technology involves applying knowledge and skills when designing, making and evaluating products. The carefully chosen topics will enable our children to consider the needs of children, adults and wider members of the community. Careful consideration is given to the children's cultural backgrounds and this is reflected in our chosen topics. Undertaking design and technology activities will give our children opportunities to use a range of materials and processes, and to work individually or as part of a team.

Aims

Our aim is to provide an exciting, modern and relevant curriculum for all children. Skills are introduced through an exploratory approach in the early years. These practical life skills are developed year by year until the children leave Kings Road. Not only will our children have mastered a practical skills set which will enable them to access future learning; their creativity, imagination, co-operation and communication skills will flourish. By developing a practical, hands on approach to learning, children will design, make and evaluate a range of useful products. They will also have the knowledge to make healthy choices relating to food.

Through carefully planned lessons, children will have opportunities to learn in different ways. Children will work individually to develop and enhance their own ideas. Children will be supported according to their individual needs which will ensure all reach their full potential. They will also work as part of a group to promote co-operation, communication and leadership skills. Where possible, curriculum links are made with topics to provide rich opportunities for a deeper understanding of both knowledge and skills. School visits and workshops will also generate choices for DT topics. The wide variety of cultures of our children is also reflected in these choices. IT is used where appropriate for the design process. Products will be made within

the classroom, the art and design studio or in the cookery room. Children will have opportunities to evaluate their work and give helpful, constructive feedback to their peers.

Through the acquisition of new skills and the development of learnt skills, children will become independent learners. They will be willing to take risks and to try new, enjoyable and purposeful activities. The three stages of designing, making and evaluating products will develop their interest for future learning, provide valuable life skills and career choices in adult life.

Curriculum

Our work reflects the National Curriculum requirements for Design and Technology:

'Pupils should be taught to develop their design and technology capability through combining their designing and making skills with knowledge and understanding, in order to design and make products'

At Kings Road we have developed our Design Technology curriculum using the Kapow scheme. Skills are taught progressively through carefully chosen topics between Key Stages. Careful consideration has been made to ensure all elements of Design Technology: Structures, Mechanisms, Textiles and Cooking are taught within each Key Stage. The Digital world and Electrical systems topics are taught in KS2. Coverage of this is shown in the Long-Term Plan.

Planning

Teachers plan for Design Technology using the Kapow scheme of work. Three topics are studied each academic year. The topics have been chosen by the Design Technology lead to ensure coverage of all elements of Design Technology and the requirements of the National Curriculum. Each topic enables pupils to research, design, make and evaluate the proposed products. Teachers also refer to the Progression of skills learning ladders for their year group. This ensures that quality teaching and learning takes place with children acquiring new skills and technical knowledge progressing from the previous year and across key stages.

Objectives

Pupils should have opportunities to:

1. develop realistic outcomes to assignments.
2. take increasing responsibility for their own work.
3. critically evaluate their work and the work of others and suggest improvements.
4. work individually and in teams, groups, partners or pairs.
5. work with a range of materials and to use them appropriately.
6. use a variety of tools safely and correctly.
7. communicate ideas in a variety of ways.
8. develop skills and apply knowledge and experience when working on an assignment.
9. develop the ability to solve problems.
10. research and record relevant information where appropriate.
11. examine and evaluate design features in simple products including their historical development.

Early Years

DT skills are introduced in our EYFS. These skills provide the foundations for learning and they will be developed as children move into KS1 and then KS2. Children in nursery will be taught 2 topics from Kapow and in Reception 3 topics. These topics are shown in the Long-Term Plan. In addition to this, a making/creative area is provided in our early year's classrooms. In these areas, children are free to explore and use materials for their own ideas and to practise new techniques. With their own exploration and the teaching of the Kapow topics children will achieve the Early Learning Goal: Creating with Materials:

'Safely use and explore a range of materials, tools and techniques, experimenting with colour, design, texture, form and function'.

Whole School Policy

Design and Technology has been developed to ensure it is an integral part of the whole school approach to children's learning within our Ignite Curriculum.

Equal Opportunities

The full range of activities in technology will be made available to all children, irrespective of race, gender or physical disabilities.

Assessment

Teacher assessment is used to inform future planning and to review children's capability. Children are encouraged to make an oral or written evaluation of their work in technology throughout the key stages. Where appropriate children will use design sheets or booklets to plan, record, assess and evaluate their work.

Recording

Children's work will be presented in their Design Technology books. Evidence of research, planning, evaluating and photos of the making process will be included.

Resources

Resources for topics are stored in the Art and Design studio. High risk resources such as saws are kept in a labelled box out of sight and reach of pupils. Cooking resources are kept in the cookery room. Knives are kept in a secure storage box.

Special Educational Needs

Any children who are identified as having SEN are given the support they require. This may be, additional time to complete tasks, differentiated resources, or 1-1 TA support. Where children have a degree of physical, sensory or behavioural difficulties in the making of products they should be encouraged to participate in their activities with help from others.

Differentiation

A range of approaches will be used and incorporated into our D&T activities. This will allow all children to develop their potential according to age and ability. Time, resources and 1-1 support will have been considered.

Role of the DT lead

The DT lead works with managers, teachers and teaching assistants to develop a cohesive design and technology curriculum throughout the school. The co-ordinator will also:

- support colleagues in their development and understanding of detailed work plans and implementation of schemes of work and in assessment and record keeping.
- take responsibility for the purchase and organisation of resources for D&T
- keep up to date with developments in D&T.
- monitor delivery throughout the school.

Health and Safety

All aspects of Health and Safety are reflected in the Design Technology risk assessment. Within the Kapow topics, specific health and safety points are highlighted to support teachers and teaching assistants. These points must be followed to ensure all pupils are safe.

Date October 2025

Signed: E Anderson