Design and Technology Policy

Introduction

This policy has been written as a response to changes in the teaching of Design and Technology through the New Primary Curriculum 2014.

It is a statement of the aims, principles and the teaching and learning of Design and Technology at John T. Rice Infant School. At John T. Rice Infant School we aim to develop knowledge, the skills needed in Design and Technology to build on early childhood experiences by further investigating and exploring the things that are familiar to them. We want them to work safely and to be aware themselves of safety issues. We also aim to provide hands-on experience wherever possible and to use drama/role-play to aid understanding.

At John T. Rice Infant School we have high expectations of children's work and celebrate children's achievements, fostering self-esteem and confidence.

Aims

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.

Objectives

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. They should work in a range of relevant contexts [for example, the home and school, gardens and playgrounds, the local community, industry and the wider environment].

When designing and making, pupils should be taught to:

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
- select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
- select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics

Evaluate
- explore and evaluate a range of existing products
- evaluate their ideas and products against design criteria

Technical knowledge
- build structures, exploring how they can be made stronger, stiffer and more stable
- explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.

Teaching & Learning

Our Curriculum

At John T. Rice we follow the Learning Challenge Curriculum. The ethos that underpins the Learning Challenge approach requires teachers to check on what children already know and then inspire them through an initial key question and subsequent questions to investigate. Each Learning Challenge has a 'wow' to begin each half term and its own reflection at the close. By using these there is a more complete level of challenge for the pupils.

Planning

Our long term planning is based on a two year planning cycle with a different Learning Challenge each half term and a planned in 'wow'.

Key Stage teams meet half termly to complete the medium term planning. To ensure that the Learning Challenges provide adequate coverage and progression through Years 1 & 2, the school will highlight the intended objectives on the National Curriculum document.

Class teachers have responsibility for creating their own weekly planning based on the needs of the children using assessment for learning.

Non-negotiables

Non-negotiables are a clear map of the basic skills to be taught in each year group. These are essential for children to unlock their learning and make progress. Opportunities to teach these skills are interwoven through the Design and Technology curriculum.

Monitoring & Assessment

Children are informally assessed during lessons, through questioning and performance which will be used formatively to inform planning. Summative assessments are used at the end of each half-term through Classroom Monitor, to show progression throughout Foundation Stage and Key Stage 1.

Work scrutinies will be completed half termly (with either the SLT or teaching staff) to monitor the quality and consistency of work in Design and Technology. Termly planning scrutinies will take place to monitor coverage and progression of Design and Technology across the key stage. Due to the cross curricular nature of the Learning Challenge approach, Teaching & Learning observations will be conducted termly and used to monitor a range of subject areas.

Speaking & Listening

Speaking and listening activities should be encouraged within Design and Technology whenever possible. These should be linked to the learning objectives for Spoken Language taken from the National Curriculum for English.

Equal Opportunities

At John T. Rice Infant School we are aware of the need for equality of access for all children. Our staff believe strongly in creating equal opportunities for all children and work to this aim. We introduce and build upon the children's awareness of equal opportunities including the development of respect and understanding of multi-cultural, gender and S.E.N. issues.

E-Safety

Whilst using a wide range of technologies to teach Design and Technology, we need to ensure children are safeguarded. E-Safety encompasses Internet technologies and electronic communications such as mobile phones as well as collaboration tools and personal publishing. It highlights the need to educate pupils about the benefits and risks of using technology and provides safeguards and awareness for users to enable them to control their online experience.

E-Safety depends on effective practice at a number of levels:
- Responsible ICT use by all staff and pupils; encouraged by education.
- Sound implementation of e-safety policy in both administration and curriculum, including secure school network design and use.

This policy was agreed by staff in Autumn 2017 and has been agreed by the Governing Body. This policy will be reviewed in Autumn 2018.