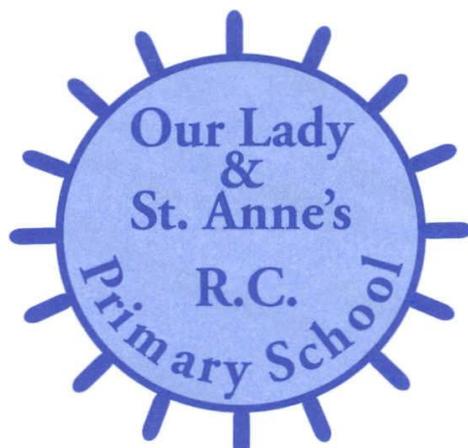


# Design & Technology Policy

## 2017-18



### **Our Light Shines Always**

**We want the best teaching, the best opportunities and the best support and encouragement for every child.**

**We are a friendly, happy, Catholic school, where everyone is valued for their individuality and special gifts.**

**Named personnel with designated responsibility for: Design & Technology**

<b>Academic year</b>	<b>Designated Lead</b>	<b>Chair of Governors</b>	<b>Review Dates</b>
2017-18	Meidbin Limer	Christine Baker	January 2018

## **Safeguarding Statement:**

At Our Lady & St. Anne's RC Primary School we respect and value all children and are committed to providing a caring, friendly and safe environment for all our pupils so they can learn, in a relaxed and secure atmosphere. We believe every pupil should be able to participate in all school activities in an enjoyable and safe environment and be protected from harm. This is the responsibility of every adult employed by, or invited to deliver services at Our Lady & St Anne's RC Primary School. We recognise our responsibility to safeguard all who access school and promote the welfare of all our pupils by protecting them from physical, sexual and emotional abuse, neglect and bullying.

## **School Aims**

Our Lady and St. Anne's Primary School aims to provide children the opportunity to develop towards their full potential; academically, emotionally and socially:

- Providing the highest standard of education to enable children to acquire the skills, knowledge and concepts relevant to their future.
- Promoting an ethos of care, mutual respect and support, where effort is valued and success celebrated.
- Enabling children to become active, responsible and caring members of the school and wider community.

The school works towards these aims by:

- Promoting high quality learning and attainment in a learning environment.
- Valuing each other and ourselves.
- Working in partnership with parents and the community.

## **Learning and Teaching**

At Our Lady and St. Anne's we strive to provide a broad and balanced curriculum, providing high quality learning experiences.

We believe that:

- Learning should be a rewarding and enjoyable experience for everyone i.e. learning should be fun and enable children to make expected or accelerated progress;
- Teaching needs to equip children with the skills, knowledge and understanding necessary in order that they can play an increasingly useful and positive role in society and make informed choices about their lives both now and in the future;
- High quality teaching and learning experiences support children to be able to lead happy and rewarding lives, now and in the future.
- High expectations of learning behaviours are evident through explicit teacher modelling.

## Design and Technology Aims

Design and Technology is taught using the Early Years learning goals are areas and the National

Curriculum. Skills are taught explicitly or discreetly through topics.

Our school aims to:

- Promote and foster the individual child's creative ability and develop their technical skills to enable them to achieve their full potential;
- Develop confidence, value and pleasure in Design and Technology;
- Develop children's ability to express their own ideas, feelings, thoughts and experiences in a positive and secure environment where all contributions are valued;
- Develop children's awareness of technical and practical expertise;
- Develop confidence in performing everyday tasks that enable each child 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 and products for a wide range of users;
- Enable children to respond and evaluate their work and the work of others critically, imaginatively and positively;
- Develop their understanding of healthy eating and nutrition;
- Develop crucial life skills that enable pupils to feed themselves and others affordably and well now and in later life.

## Curriculum

Our Lady and St. Anne's plan effectively and creatively through cross curricular topics which are shown through detailed curriculum maps. However, these are flexible and can be changed throughout the year if the curriculum priorities change. Every half term there is a planned creative curriculum week. During this week, many aspects of the foundation subjects are covered. These aspects are tracked and recorded from Year 1-6 every half term to ensure a rich and balanced curriculum is provided.

In Key Stage One and Two, pupils should be taught to **design, make, evaluate** and apply their **technical knowledge**. This process is the same for all children but the content changes, showing progression through each phase.

## Early Years Foundation Stage

### Exploring and using media and materials

- Understands that different media can be combined to create new effects.
- Manipulates materials to achieve a planned effect.
- Constructs with a purpose in mind, using a variety of resources.
- Uses simple tools and techniques competently and appropriately.
- Selects appropriate resources and adapts work where necessary.
- Selects tools and techniques needed to shape, assemble and join materials they are using.

## Key Stage One

Pupils should be taught to:

- **Design** purposeful, functional and appealing products for themselves and others. Generate, develop, model and communicate their ideas through **talking, drawing, templates, mock-ups** and **IT**.
- **Make** objects using a range of tools and equipment to perform practical tasks such as cutting, shaping, joining and finishing. Select from a wide range of materials and components including **construction, textiles** and **ingredients**.
- **Evaluate** a range of existing products against design criteria.
- Apply their **technical knowledge** through building structures, making them stronger, stiffer and stable. Explore mechanisms such as **levers, sliders, wheels** and **axles**.

## Key Stage Two

Pupils should be taught to:

- **Design** and research using design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. Model and communicate their ideas through discussion, annotated sketches, **cross sectional and exploded diagrams, prototypes, pattern pieces** and computer aided design;
- **Make** objects using a range of tools and equipment to perform practical tasks as in Key Stage 1, select materials textiles and ingredients according to their functional properties and aesthetic qualities;
- **Evaluate**, investigate and analyse a range of existing products against their own design criteria and consider the views of others to improve their work. Understand how key events and individuals in design and technology have helped to shape the world;
- Apply their **technical knowledge** through building structures, making them stronger, stiffer and more stable. Explore and apply mechanisms such as **gears, pulleys, cams, levers and linkages**. Understand and use electrical systems in products such as **switches, bulbs, buzzers and motors**. Apply their understanding of **computing programmes to monitor and control** their products.

## Cooking and Nutrition

Pupils need to understand and learn how to cook and apply the principles of nutrition and healthy eating to their own lives. Promoting a love of cooking can also develop human creativity. Cooking is a vital and crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life.

## **Key Stage One**

Pupils should be taught to:

- Use the basic principles of a healthy and varied diet to prepare dishes and understand where food comes from.

## **Key Stage Two**

Pupils should be taught to:

- In addition to the outcomes in Key Stage One, prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques and understand seasonality. Pupils should know where and how a variety of ingredients are grown, reared, caught and processed.

## **Resources**

An audit is carried out annually and new stock is ordered termly. Resources are stored centrally and staff are consulted to find out specific items and equipment they need for their curriculum topics for future Design and Technology lessons. Supplies are stored centrally.

Children are encouraged at all times to respect and care for their working environment, selecting, using, storing and returning their own materials and equipment tidily, safely and with regard to economy of use.

## **Display**

Displays show how the children have developed their creative skills through art, craft, design, technology and nutrition. Displays could include a range of media and children's observations about their work. Work will often display learning in other areas of the curriculum.

## **Visits and Visitors**

Our Lady and St Anne's believe in providing the best learning opportunities for all children inclusively. Where appropriate, educational visits and places of interest will be encouraged and utilised so children can develop a concrete understanding of Design and Technology. Opportunities to work with designers, skilled computing technicians and cooks are also considered to support the best learning outcomes and experiences.

## **Home School Links**

Curriculum information is shared each term with parents and carers. This supports families understand what teaching and learning is taking place with specific links to Design and Technology.