

# DESIGN & TECHNOLOGY

Design and Technology aspires to provide all North Primary students with the creative, technical, and practical skills required to confidently do everyday activities and engage successfully in an increasingly technological modern world.

At North, we believe that through the Design and Technology curriculum, children should:

- have the chance to experiment with creativity, innovation, freedom, and reflection
- participate in projects that are both stimulating and demanding, allowing all children to thrive
- build crucial technical skills and vocabulary
- develop key skills, such as teamwork, resilience and resourcefulness

Children will be able to independently discuss design criteria, study a project, use a variety of tools, equipment, and resources, and reflect on the design process in order to evaluate their work and learning journey by the end of their primary years.

The five key strands of D&T:

Our Design and Technology curriculum is closely linked to our cross-curricular topics. Children can design, build, and assess items related to their learning, such as vehicles, puppets, and smoothies, while learning to use a variety of tools and techniques. Materials and structures, mechanisms, textiles, food and nutrition, and electrical systems are the five main learning strands.

## Materials/Structures

Children gradually learn how to use design criteria to measure, cut, and combine materials to make specified structures. In KS1, students will learn how to strengthen their products, and by the end of KS2, they will be able to apply this knowledge to a variety of increasingly complex constructions.

## Mechanisms

Children will explore levers, sliders, wheels, and axels in Key Stage One before moving on to pulleys, gears, and cams in Key Stage Two, all of which have strong links to our Science curriculum.

## Textiles

Children learn how to create products for a specific purpose before measuring, cutting, and joining materials in a number of ways.

## Food and Nutrition

Healthy eating and understanding where food originates from are at the center of our food and nutrition activities. Children will be able to learn about foods as well as develop a variety of skills and techniques for preparing meals and dishes.

## Electrical systems

In Key Stage Two, we begin working with electrical circuits, such as light bulbs, motors, and switches, in order to include them into our projects.

