



# OUR DESIGN AND TECHNOLOGY LEARNING JOURNEY

## Textiles

Children are introduced to and can choose from a range of materials from which they cut out shapes and embellish or fasten with glue / tape.

## Cooking and Nutrition

Children choose and name ingredients, work hygienically and begin to understand what is meant by a balanced diet.

## Construction

In EYFS, children explore their own ideas, thoughts and feelings through designs by folding, tearing and cutting materials. They learn to hold and use scissors correctly and safely and attach materials together.

**EYFS**

**In Y1 and 2 children design products for themselves and others, they communicate their ideas through words and drawings and they make some of their designs.**

## Key Stage 1

### Cooking and Nutrition

#### Pre-historic Predators - Smoothies

Children learn how to prepare simple dishes safely and hygienically, without using a heat source and how to use techniques such as cutting, peeling and grating.

### Mechanisms

#### Toy Story - Pull Along Toy Into the Wild Moving Monster

Children learn about the movement of simple mechanisms including levers, sliders, wheels and axels.

### Structures

#### Explore, Rescue, Protect - Windmill

Children learn how freestanding structures can be made stronger, stiffer and more stable

### Textiles

#### Wonderful Worlds Winter Top Once Upon a Time House for a Village

Children learn how to make a 3-D textiles product from two identical fabric shapes.

**In Y3 and 4 children design products for purpose and make some of these using using a wider range of tools and techniques. They evaluate the success of their project.**

### Mechanical Systems

#### Wild Explorers – pneumatic system

Children learn how to use mechanical systems such as levers and linkages or pneumatic systems to create movement

### Structures

#### A Rome Fort - A Miniature Maze

Children learn how to make strong, stiff shell structures

### Textiles

#### A Time Travelers cushion A Victorian blanket

Children learn how to use a single fabric shape to make a 3D textiles product

### Cooking and Nutrition

#### Victorians winter soup A Giants Drink

Children learn how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source

### Digital World

#### Great British Innovators light up poster Wild Explorers Timer Giants iVideo and advert

Children learn how simple electrical circuits and components can be used to create functional products

## Lower Key Stage 2

**In Y5 and 6 children design more sophisticated products for purpose and make them using a wider range of tools and techniques including electrical / computerised components**

## Upper Key Stage 2

### Cooking and Nutrition

#### RSE – Cook healthy Meals

Children learn how to prepare and cook a variety of predominantly savoury dishes safely and hygienically. They learn that recipes can be adapted to change the appearance, taste, texture and aroma and that different food and drink contain different substances – nutrients, water and fibre – that are needed for health

### Digital World

#### Light and Electricity – Fairground Ride

Children learn how more complex electrical circuits and components can be used to create functional products.

### Mechanical Systems

#### Forces – A Crane Lever to Life a Load

Children learn how mechanical systems such as cams or pulleys or gears create movement.

### Structures

#### Human Body – Wire Sculptures

Children learn how to reinforce and strengthen a 3D framework.

### Textiles

#### WW2 – Evacuation Bag

Children learn how to make a 3D textiles product from a combination of fabric shapes