



# We Are Engineers: Embracing Technology to Solve Problems



In our 'We are Engineers' theme, children will use skills of STEM (Science, Technology, Engineering and Maths) to solve problems and create products. All children will be given a design brief to follow in order to create their own products – they will then explore the 'design, make, evaluate process' to create their products. Some children will have the opportunity to combine their products with elements of computing to develop 21st century products.

## Reception - Transport

Throughout this focus, children will explore travelling over land, on water, through the air and into space. Children will learn about vehicles, transport and travelling. Through **Understanding of the World**, the children will be provided with lots of learning opportunities based around travel over land, special family journeys, travel through the air, travel into space and moving through nature. **Communication and Language** will allow children to answer 'how' and 'why' questions about their experiences and in response to stories or events. Through **Expressive Arts and Design**, children choose materials to achieve a goal, e.g. selecting a plastic yoghurt pot to turn into a boat due to its waterproof nature. In **English**, our Talk for writing text is 'Whatever Next'. Will we look at how Baby Bear created his own Rocket at home and went into Space and use the story structure to amend the text and create our own story based on a mode of transport. In **Maths**, we will be learning our number bonds to 10, working with ten frames, adding more, taking away and spatial reasoning.

## Theme Impact

Children will have the opportunity to gain an understanding of how different modes of transport work and how they have changed over time. Children will draw on skills from a wide range of areas, but particularly Understanding the World and Expressive Arts and Design. Through the 'design, make, evaluate' process, children will use their critical thinking skills to evaluate their transport designs and make improvements where necessary. This will also involve resilience and perseverance – two key areas of 'Character', one of our 6Cs. Children will be able to demonstrate this through their characteristics of effective learning.

## Catholic Social Teaching

**Option for the poor and vulnerable:** *This means that God invites us to care in a special way for those who need the most help.*

Through Collective Worship, children will explore the many various conditions and environments that people live in- both locally and globally and the reasons for this. They will think about how they can support people who are victims of things like famine, unjust oppression, prejudice and unemployment.

## Application

Children will collaborate with peers to create a mode of transport suitable for water. They will evaluate their creations and share them with an audience.

## RSE/PSHE

**Created to Love Others** explores the individual's relationship with others. Building on the understanding that we have been created out of love and for love, children will explore how we take this calling into our family, friendships and relationships, and teaches strategies for developing healthy relationships and keeping safe

## PE

Manipulation and Coordination

Gymnastics

## Expressive arts and design

Children will produce more detailed representations and talk about their artwork or designs.

## Cooking

Pasta salad

## Chosen texts

