



We are Engineers: Embracing Technology to Solve Problems

In this 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. Children will have the opportunity to combine their products with elements of computing to develop 21st century products.



Year 2 - Vehicles

Technology will be the driving force behind our 'We are Engineers' theme. Children will learn about how we can use technology to help us solve problems. As part of this unit, children will learn about Materials in **Science**. They will investigate the properties and suitability of materials, and understand why they are best suited for different purposes. This will link in to their learning in **DT**, where we will be making a moving vehicle using axels and wheels and attaching them to a chassis. We will look at how vehicles have changed over time in **History**, and link this to the impact that technology has had on our lives, and will continue to have in the future. In **Computing**, children will develop their knowledge of Coding by using Scratch to create a conversation between their sprites.

Theme Impact

Children will have a deeper understanding of the importance of technology in our lives and how this has helped to change and shape our world today. They will begin to understand the enormity of the range of technology available, and start learning how they can use this to learn more about their surroundings.

Catholic Social Teaching

Family and Community

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 in our wider community who are victims of things like famine. This will be taught alongside the virtues of **Grateful and Generous**. Children will reflect upon how they can show generosity to others and in turn, think about that which they can be grateful for.

Application

To design, make and evaluate a moving vehicle.

Children to explore own ideas in groups – this will be completed through planning, designing, making and evaluating their vehicle.

Wider Curriculum

As well as exploring the vehicles and materials, children will continue to learn in other areas of the curriculum alongside their theme. These areas include...

Computing

Coding on Scratch

PE

Run, Jump and Throw

Gymnastics

RSE

Created to Live in the Community

Cooking

Cous Cous Salad

Class Reader

