



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. Some children will have the opportunity to combine their products with elements of computing to develop 21st century products.



Year 3 - Moving Monsters

This half term, we will be turning into experts in the field of Physics. In our **Science** lessons, children will be investigating a range of forces, focusing particularly on magnets. Lessons will be hands on; engaging the children's curiosity and enhancing their scientific understanding. In **Design & Technology**, children will be linking all of their STEM learning together, by investigating basic pneumatics. They will design and make their own 'moving monster,' relying on a pneumatics system to bring their monster to life. In **Computing**, we will be using the software 'Scratch' to create a digital animation, using various algorithms and codes. In **English**, we will be moving to a non-narrative unit, learning about explanation texts. We will unpick their layout and structure and then we will write our own text linked to our Science and DT learning.



Wider Curriculum

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

Music

Jazz

PE

Athletics

MFL - French

Vegetables

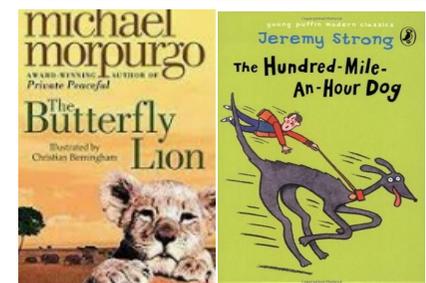
RSE/PSHE

Created to Live In Community

Cooking

Pizza

Class Reader



Theme Impact

Through this unit, children will draw on skills from a wide range of areas, but particularly the STEM subjects– which the children really enjoy. Children will understand the term 'engineer' and how important this role is in our future. Through the 'design, make, evaluate' process, children will use their critical thinking skills to evaluate their designs and make improvements where necessary. This will also involve resilience and perseverance– two key areas of 'Character', one of our 6Cs.

Catholic Social Teaching

Catholic Social Teaching – Family & Community

Through collective worship children will be exploring ways that they can be helpful towards their family and community. Children will explore how their actions can help those around them. This will be taught alongside our virtues and values of **Generous & Grateful**. Grateful for our own gifts, for the gift of other people, and for the blessings of each day; and generous with our gifts, becoming men and women for others.

Application

Linking all of this learning together, children will share their final creations to an audience. They will create an explanation text to inform others of the science behind the creation and how it works. We have chosen Year 2 as our audience (as a way to get them excited about coming to Year 3) so the children will need to think about how they present to a younger age group.