



# We are Engineers: Embracing Technology to Solve Problems

In our “We are Engineers” theme, children will use the 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 produce 21st century products.



## Pre School

Throughout this focus children will be exploring and developing their understanding of construction through stacking blocks vertically and horizontally, making enclosures and creating spaces.

Through Understanding the World the children will talk about what they see, using a wide vocabulary.

Use technology to look at their homes along with those of their peers.

## Theme Impact

Children will gain an understanding of how to create and adapt their construction designs through a process of testing and reviewing, before testing again.

## Catholic Social Teaching

**Catholic Social Teaching Focus- 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. This will be taught alongside the virtues of **Compassionate and Loving**; compassionate towards others, near and far, especially the less fortunate; and loving by their just actions and forgiving words.

## Application

Children will gain an understanding of construction through a variety of opportunities such as junk modelling and large block. We will then test these to see how strong they are and begin to think about how we can adapt our designs to make them stronger.

## Enrichment

To use junk modelling to design and create homes. We will also use technology to view different homes and buildings using Googlemaps.

## Understanding the World

Talk about what they see, using a wide vocabulary.

## PD

Shows an understanding of how to be safe and use tools safely when junk modelling and large scale construction.

## Cooking

Pasta salad

## Class Reader

