



WE ARE ENGINEERS: Embracing Technology to Solve Problems

At Our Lady and St. Hubert's, home, school and parish work together, knowing that God is with us in all we do



We are Engineers: Embracing Technology to Solve Problems Year - Pre School



Throughout this focus children will use their problem solving and design skills to create homes which they will test, using a hairdryer to see how strong they are. Through Expressive Arts and Design they will be working in small groups and pairs to create their designs and talking together to see how they can improve on their design if needed. They will predict whether they think their design will resist being blown down and think about the reasons behind this.

Using technology they will have the opportunity to use Google maps to find their house using street view.

Theme Impact

Children will gain an understanding and develop their knowledge of construction thinking about the materials that they want to use and how they can use these to form a house. They will also consider the features that are needed to create a house, such as enclosures for rooms, doors and windows.

Catholic Social Teaching

The children will be looking at how they are not only special individuals but are social beings, who work together for the common good and well-being of all people, and to know ourselves we must meet other people.

Curriculum Drivers

Expressive Arts and Design

Early Years Objectives

Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park.

Explore different materials freely, to develop their ideas about how to use them and what to make.

Understanding the World

Early Years Objectives

Explore collections of materials with similar and/or different properties.

Talk about what they see, using a wide vocabulary.

Personal, social and emotional development

Early Years Objectives

Play with one or more other children, extending and elaborating play ideas.

Develop appropriate ways of being assertive.

Application

Children to gain an understanding of how to create and design houses that will keep animals (pigs) safe from the Big Bad Wolf, and test them to see how strong they are.

Other EYFS curriculum Opportunities

Writing

Drawing the Three Little Pigs story as a sequence of events.

Reading

T4W The Three Little Pigs.

Technology – application of previously taught skills

Using technology to find their homes on Goggle maps and using a hairdryer to test the strength of the houses that they have built.

Enrichment

Using Google maps and junk modelling to create houses for the Three Little Pigs.

Home Learning

Evaluation Notes

Others objectives to be covered this term

Physical Development

Match their developing physical skills to tasks and activities in the setting. For example, they decide whether to crawl, walk or run across a plank, depending on its length and width.

Communication and language

Be able to express a point of view and to debate when they disagree with an adult or a friend, using words as well as actions.

Cooking in the Curriculum

Pasta salad