



We are Engineers: Embracing
Technology to Solve Problems

Focus Overview

Reception: Transport



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

A Wonderful World:
Appreciating God's
Creations



Peace and Conflict: Respect
for all Individuals



A Moment in Time:
Learning from the
Past for Our Future



We are Engineers:
Embracing Technology
to Solve problems



Nurturing Nature:
Engaging and Taking
Responsibility



**Our Place in the
World:** Identity and
Community



We are Engineers Reception –

This theme gives children the opportunity to think like engineers and enable them to use skills of STEM (Science, Technology, Engineering and Maths) to solve problems and create products. 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. In English, our **Talk for Writing** text is 'Mr Gumpy's Outing'. Will we look at what happened to Mr Gumpy's boat 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, estimating, ordering numbers to 20, naming 3D shapes and looking at the properties of these shapes. **Communication and Language** will allow children to communicate and present their final products out to the rest of the class. Finally, through **Expressive Arts and Design**, children will be able to construct with a purpose in mind, using a variety of resources and use simple tools and techniques competently and appropriately.

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. 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.

British Values

Children will explore British Values in ways that are meaningful to them as part of the setting's spiritual, moral, social and cultural curriculum. Children will be prepared for life in modern Britain and be part of a democratic society and to help them to look after others around them. Children will celebrate different cultures, faiths and beliefs and will celebrate this by having an Afternoon tea inviting members of local faith groups

Curriculum Drivers

Understanding the World

Discuss about what they have heard and seen in stories and images of the past and contrast them in discussion, Listen to, respond and ask questions about fiction & non-fiction books
Look at maps of our school/area and discuss the features they notice. Make their own maps.

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.

Wider Curriculum Opportunities

Writing

- Write simple captions.
- Write short sentences.
- Start to use finger spaces between words.
- Able to read own sentences back.

Reading

- Sequence a familiar story using images or objects.
- Tell the story to another person using the book or images.
- Make a simple prediction based on the events of a story so far.

- Use the language from a story within role play and discussions.

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Enrichment

Design and make a boat to float in water
Severn Trent Valley

Home Learning

Research different modes of transport that their family members used

Evaluation Notes

Stand-alone objectives to be covered this term

PE

Personal Development

- Speed and Agility
- Manipulation and Co-ordination

Cooking in the curriculum

Pasta Salad