



Curriculum Information Year 3

Our next Unit Of Inquiry: Transdisciplinary Theme 'How the World Works'

An inquiry into the natural world and it's laws; the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment.

The Central Idea:

Understanding Science can make our lives easier.

Unit Summary:

Throughout this unit, children will engage in a variety of hands-on scientific explorations to find out about different forms of forces and how they function. They will make and test their own scientific predictions, manipulate variables and use measurement to record their findings. Children will read and follow procedural instructions in order to carry out their experiments and used simple diagrams to draw and explain what happened using scientific vocabulary.

Lines of Inquiry	Attitudes and LP	Transdisciplinary Skills
Forces and how they are measured. Simple machines and how they work. Technology in our lives.	Inquirer Reflective Communicator Enthusiasm Curiosity	Research Skills: Formulating questions, making observations, collecting data, recording data, presenting research findings

As part of our curriculum, students will continue to learn develop, use and apply their subject area knowledge and skills. During this unit, children will also be taught to:

Language	Mathematics	Science
Recognize and use the different parts of a book for example title page, contents, index. Keep a log of ideas in a science journal. Use graphic organizers to plan writing e.g. mind maps. Use a dictionary/ thesaurus and words banks to extend their use of language. Publish written work in handwritten form or in digital format.	Use the language of mathematics Use ordinal numbers to describe the position of things in a sequence Estimate, compare and measure length of real objects using centimetres Compare and order the length of real objects Begin to compare the length of objects in relation to a metre (more/less than a m, about a m)	Describe the movement of familiar things Understand pushes and pulls are examples of forces which require energy Recognize that forces cause change of movement and shape Identify and measure forces and their effects Investigate the practical application of energy and forces in everyday life, including machines and structures

Action is an important part of the curriculum where children can take the opportunity to extend their learning. This can take many forms, from a discussion initiated by your child, brining something to school from home or a request to go somewhere in the community to find out more. To support your child at home with this unit of inquiry, you may wish to:

- Find a book related to the unit.
- Make a model of a simple machine
- Drawing a picture of a machine / invention and write an explanation about how it works.
- Take photographs of how forces / simple machines are used in our daily lives.
- visit <http://www.billnye.com/for-kids-teachers/episode-guides/> to learn more about how things work
- -check out science kids at <http://www.sciencekids.co.nz/>
- register for a free trial at <http://www.brainpop.com/> to find out more about forces, energy and how things works

If you want to take some action and offer your expertise in any area, we would love to hear from you!