

The WOW of Science

In Week 7 (12-16 June), Sunnybrae celebrates the **WOW of SCIENCE** as part of Science and Technology week.

During school time, the learners will:

- Watch video clips to promote the wonder and awe of science
- Participate in a Science in a Van Road Show performance, customised to each syndicate
- Have opportunities to explore science further through workshops at lunch time
- Learn from each other by sharing science experiences and knowledge
- Investigate science through syndicate themes

To make the learning even more powerful, we would love the Sunnybrae community to get behind the **WOW of SCIENCE** by creating family projects. Collaboration is key to learning and a family project is a great way to grow our understanding of science concepts whilst having family fun.



Create your WOW OF SCIENCE project between **Week 5 and Week 7**, It needs to arrive at school during week 7 so classes can share on or before Friday 16th June.

The topic can be just about anything! We want you to explore the 5 areas of science outlined in the New Zealand Curriculum,

<http://nzcurriculum.tki.org.nz/The-New-Zealand-Curriculum/Science>

and then select one area to investigate more thoroughly through your family project. On the next page, there is an outline of the 5 areas:



The Nature of Science

Planet Earth and Beyond

The Living World

The Physical World.

The Material World

There is also a list of suggestions on which to base your family project, but don't feel you have to stick to one of those. You can choose something new to investigate, something you feel knowledgeable about, something that relates to a parent's work or something that is connected to a family interest. Just remember, have fun exploring the **WOW of Science!**

The Nature of Science	Some Ideas for a Family Project
<ul style="list-style-type: none"> • What is Science? • How do scientists carry out investigations? • Where can we see science in our world? • What has been a significant scientific breakthrough? • What are some of the latest scientific breakthroughs? 	<ul style="list-style-type: none"> - Draw a picture of a scientist and label it with all the skills a scientist needs in his/her role - Carry out an experiment and record it using the 5 step method (Aim, Hypothesis, Method, Results, Conclusion) - Create a presentation about a famous scientist - Create a diagram/model of an invention/scientific breakthrough - Become a family of scientists - carry out an experiment and video the process
The Living World	Some Ideas for a Family Project
<ul style="list-style-type: none"> • What types of living things are there? • What are the different habitats of living things? • What animals and plants are unique to New Zealand? • How are different living things connected? (e.g. food chains) • How can humans help care for nature? • What do you do or can you do to care for nature in New Zealand? 	<ul style="list-style-type: none"> - Create a model/diagram of a natural habitat or animal - Research an endangered species and create a poster to promote action to save it - Create a 2D/3D presentation of a life cycle, food chain or food web - Through pictures, explain how humans can act responsibly to care for the environment - Create a mock interview of a New Zealand scientist describing a New Zealand species - Carry out a test on nearby water and describe what you found - Grow a plant and capture the daily changes
The Planet Earth and Beyond	Some Ideas for a Family Project
<ul style="list-style-type: none"> • What is Planet Earth like? What natural resources can be found on Earth? • What is geosphere, hydrosphere, atmosphere and biosphere? How are they connected? • How is Earth connected with the Solar System? What is important about our sun and moon? • What can we find in our Universe? How do different parts connect? • How do scientists explore Space? 	<ul style="list-style-type: none"> - Create a model of Earth and label the parts - Draw a picture to show the four different spheres - Create a video/model/diagram that shows the way orbiting, gravity or tides work - Design your own rocket - Research powerful telescopes and satellites - Imagine you lived on the International Space Station - describe what life would be like - Create shadows and take photos
The Physical World	Some Ideas for a Family Project
<ul style="list-style-type: none"> • What is energy? • What is/are: Light? Sound? Heat? Electricity? Magnetism? Waves? Forces? Motion? • How can we see energy in our world? • How can we harness, use or create energy? 	<ul style="list-style-type: none"> - Make a musical instrument from recycled items - Create a circuit that turns on a light, makes a sound or connects using magnetism - Build a working windmill or kite - Create a marble mover or a rubbish grabber - Create a vehicle powered by wind, force, solar or electricity
The Material World	Some Ideas for your Family Project
<ul style="list-style-type: none"> • What is chemistry? • What is matter? How do we describe different types of matter? • How does matter change? • How do atoms behave? • How do scientists make new materials? • How can we see chemistry around us? 	<ul style="list-style-type: none"> - Explore chromatography and separate colours on coffee filter paper - Bake together and discuss permanent change - Create a model of an atom or an element - Take photos of different types of materials - Play with water - pour, swirl, colour, freeze, heat - Make bubbles