Iwonder howto power a brighter future?



The Wonder Project is Engineering New Zealand's not-for-profit, free programme for schools, designed to inspire young Kiwis with science, technology, engineering and maths (STEM).













Power Challenge

Power up! Ākonga design and build a wind turbine and work as a ropū to light up a mini town using renewable energy.

Your child's school has signed up to take part in the Power Challenge this year. Over Term 3 they'll discover the amazing phenomenon of electricity and learn how it's generated, moved and used across Aotearoa.

What your child will learn

Your child may bring home some weird and wonderful new kupu and concepts - so it's good for you to be familiar with them too!

Energy basics

Forms of energy include:

- Potential energy energy waiting to make things happen (eg gravitational potential energy makes things move downwards)
- Kinetic energy energy that something has because of its motion (eg wind turbines harness the kinetic energy of moving air)

Energy transfer: when energy moves from one place to another, or from one object to another (eg heat energy moving from a light bulb onto your skin when you touch it)

Energy transformation: when energy changes form to do work (eg our bodies convert chemical energy in our food into mechanical energy for us to move)

Engineering design process

They'll learn how to think like an engineer, using the engineering design process:

- 1. Ask
- 2. Imagine
- 3. Plan
- 4. Create
- 5. Test
- 6. Improve

What you can do to help

- Ask about their wind turbine and renewable energy
- Talk about new kupu and concepts they're learning
- Ignite curiosity with some simple experiments at home
- Add another book to your reading list with The Awesome A-Z Of How Stuff Works order from shop.wonderproject.nz

Ignite your wonder today at wonderproject.nz





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