

Student Inquiry – Angitutanga – Success – Term 3 – Middle Team

<p>Whakatauki: I orea te tuatara ka patu ki waho A problem is solved by continuing to find solutions</p> <p>Guiding Statement: My actions influence my success. Choice affects the final outcome</p> <p>Guiding Questions: If I change something, what happens? When something changes, what is the success that comes out of it?</p>	<p>The student inquiry this term is: 'Physical World'</p> <p>We are exploring and investigating ideas about everyday examples of forces and energy.</p>
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Below are 6 areas that we are focusing on and some simple tasks that you can try at home.

Light	<p>Scientific Definition: A type of energy. A form of electromagnetic radiation that can be seen by the human eye, eg. a light bulb.</p> <p>Task: Draw and label objects that gives off light around your home.</p>
Heat	<p>Scientific Definition: A form of electromagnetic energy. Heat flows from hot objects to cool objects, eg. pots and pans</p> <p>Task: Draw and label objects that produce heat around your home.</p>
Electricity	<p>Scientific Definition: The effects of an electric charge, eg. electricity is the force that powers a light bulb.</p> <p>Task: Draw and label things that need electricity to make them work around your home.</p>
Magnetism	<p>Scientific Definition: A physical phenomenon (invisible force) produced by an electric charge, that repels or attracts objects, eg. fridge door.</p> <p>Task: Draw and label things that use magnets around your home.</p>
Sound	<p>Scientific Definition: Vibrations or sound waves (invisible force) that travels through the air or an object to the ear, eg. music, loud or soft noises.</p> <p>Task: Draw and label all the things you can hear around your home.</p>
Movement Forces	<p>Scientific Definition: A force is a push or pull upon an object resulting from the object's interaction with another object, eg. hammer and nail.</p> <p>Task: Draw and label objects that you need to push or pull to make it work.</p>

Vocabulary

Energy	Energy is in everything, it can be described as 'the ability to do work'.
Electromagnetic	The force that occurs between electrically charged particles, like light and electric and magnetic fields.
Electric charge	The physical property of matter that causes a positive or negative force when placed in a magnetic field.
Invisible force	A force that can affect objects without touching them, eg. magnetism and static electricity.
Vibration	To move continuously and rapidly to and fro.