YEAR 1/2 SCIENCE TERM ONE

PHYSICAL SCIENCES

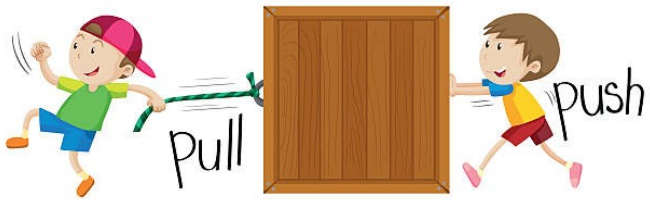
A PUSH or a PULL affects how an object moves or changes shape.

We will explore ways that objects move on land, water and air.

We will explore how different strengths of pushes and pulls changes movement.

We will identify toys from different cultures that use forces.

We look at what happens when objects are pulled towards the Earth.



We can INVESTIGATE!

- I can ask and respond to questions.
- I can make predictions!
- I can measure and record what I observe.
- I can sort information, using drawings, tables and discussion.
- I can compare my observations with my predictions and with others!
- I can share my ideas and observations in groups and with the class.

WORDS we will learn and use this term.

push	pull	forces	friction
speed	gravity	weight	movement
mass	resistance	strength	
angle	particles	direction	

YEAR 3/4 SCIENCE TERM ONE

PHYSICAL SCIENCES

FORCES can be applied by one object onto another, through direct contact or from a distance.

We will observe how speed is affected by the size of a force.

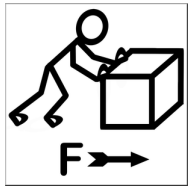
We will explore how non-contact forces are similar to contact forces.

We will compare and contrast the effect of friction on different surfaces.

We will investigate the effect of forces on an object through actions such as throwing, dropping, bouncing, rolling.

We will explore the forces of attraction and repulsion between magnets.

We will investigate the effect of forces on the movement of objects in traditional Aboriginal and Torres Strait



We can INVESTIGATE!

- With guidance, I can identify questions to investigate.
- I can make predictions!
- With guidance, I can plan and conduct investigations.
- I know how to be safe in the science room with equipment.
- I can think about how to make a fair test.
- I can measure and record my observations accurately. I use tables, column graphs and I can identify patterns.
- I can compare my predictions to results and suggest possible reasons.
- I can reflect on an investigation, figure out if it was fair or not and share my ideas with others.

WORDS we will learn and use this term.

repel magnetic north

vibrate conduction

mechanical potential energy magnetism

poles attract

convection radiation pulley

kinetic centrifugal pressure

YEAR 5/6 SCIENCE TERM ONE

PHYSICAL SCIENCES

Electrical ENERGY can be transferred and transformed in electrical circuits. It can be generated from a range of sources.

We will learn there must be a complete circuit for electricity to flow.

We will investigate different electrical conductors and insulators.

We will explore the features of electrical devices such as switches and light globes.

We will investigate how moving air and water can turn turbines to generate electricity.

We will investigate the use of solar panels.

We will explore and consider whether an energy source is sustainable.

We can INVESTIGATE!

- With guidance, I can ask and clarify questions about investigations.
- I can make detailed predictions!
- I can plan and use the elements of an investigation to answer questions and solve problems.
- I know how to be safe in the science room and identify potential risks.
- I can identify the variables that need to be changed and measure for a fair test.
- I can measure and record my observations accurately. I use tables, graphs and I can identify patterns and relationships in data.
- I can compare data with my predictions and develop evidence.
- I can reflect on an investigation, and suggest improvements to be made.
- I can share my ideas and processes using scientific representations.

WORDS we will learn and use this term.

current microwave electromagnet resistance conduction convection energy conservation neutrons negative positive ultraviolet circuit radiation magnification insulated renewable non-renewable electrons protons atoms