

GRAVITY



At home you can help by:

Discuss with your child how and why things move- eg. Cars, bikes, skateboard.

Conduct some simple experiments that use different forces and discuss how things move and why they move.

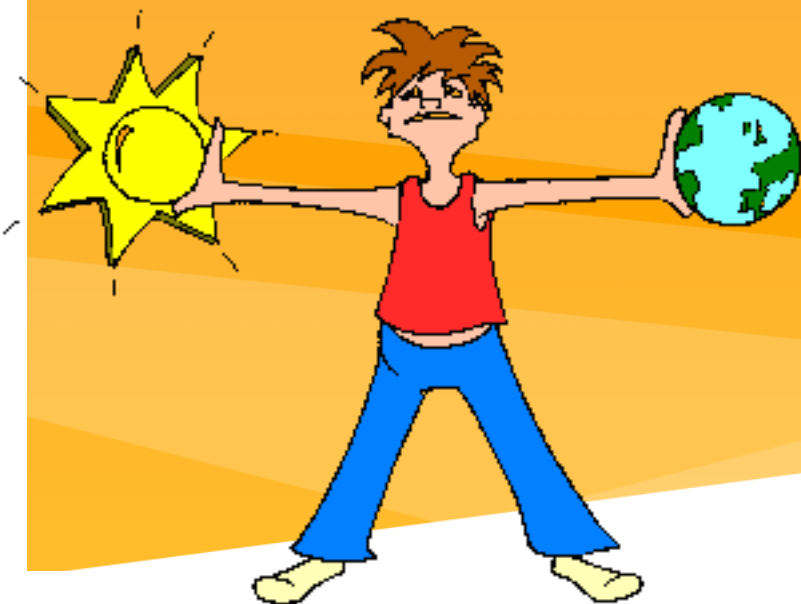
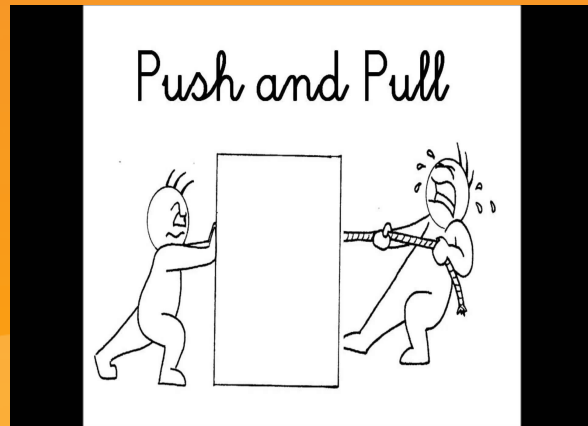
Carry out the 'Volcano Experiment!'

<http://www.learning4kids.net/2012/04/11/how-to-make-a-homemade-volcano/>

Before the volcano erupts, ask your child to hypothesize what they think will happen. Discuss what happened and why it happened.

Research different scientists such as Sir Isaac Newton and Galileo Galilei.

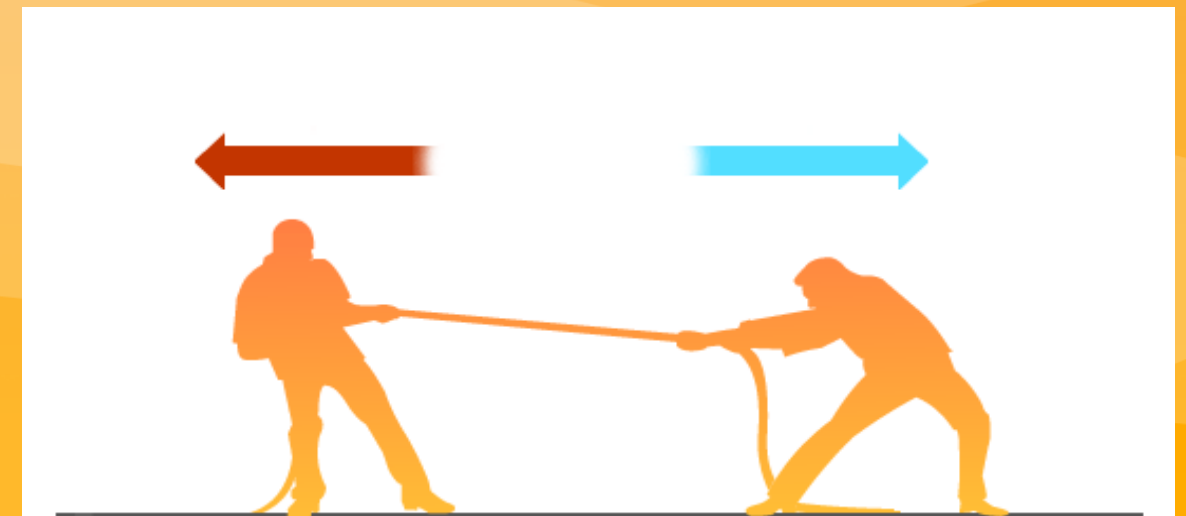
Visit the museum and Science Works.



HOW THE WORLD WORKS

An inquiry into the natural world and its 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.

YEAR 2 2014



What do we want students to know?

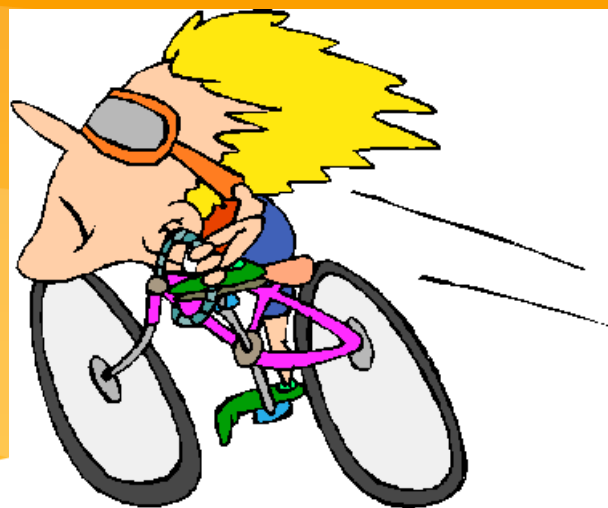
For every action there is a reaction. You need a force to make things move.

CENTRAL IDEA

People apply their understandings of forces and energy to invent and create.

LINES OF INQUIRY

- Inventions impact on people's lives
- Certain circumstances lead to the creation of important inventions
- Understanding forces and energy help inventors to create new inventions



PYP CONCEPTS

Function

How does it work?

Everything has a purpose, a role or a way of behaving that can be investigated.

Causation

Why is it like it is?

Things do not just happen. There are causal relationships at work, and actions have consequences.

Teacher Questions

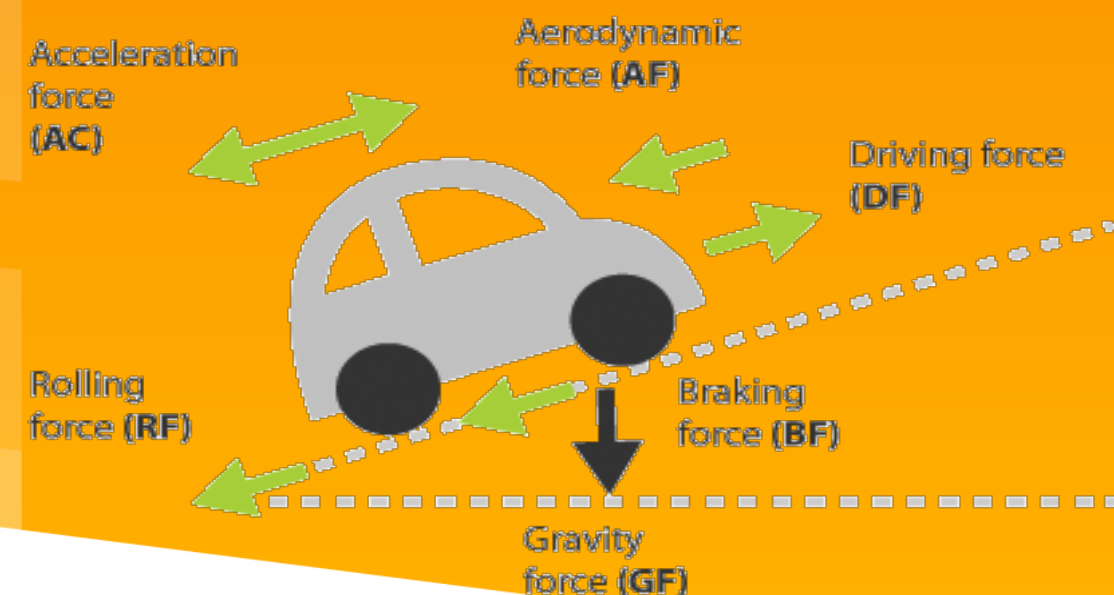
What is force?
Who are inventors?
What makes this object get from here to there?
How has an invention impacted n your life?
Why do inventions change over time?
When a force is disabled what will happen?



During this unit your child will participate in the following activities to enhance their inquiry:

- Incursion from 'Fizzics' - a hands on experience about forces and energy
- Students will investigate a range of different inventions and what lead to their creation
- Students will hypothesize, synthesize and draw conclusions about their own and school based experiments.

The forces responsible for fuel consumption



$$DF = RF + AF + AC + GF + BF$$