

# FORCE



**Time:** 30-45 minutes



## Activity Overview

This aim of this activity is to learn how different forces work to make a bike move.

## What you'll need:

- Pens/pencils
- Scissors
- Glue



## Background Science

### What is force?

A force is a push or a pull. When we push down on a bicycle pedal that is exerting a force. When gravity pulls the bike down towards the ground, this is a force as well.

There are lots of different types of force. Some of these are:

- Gravity – This pulls items towards the Earth.
- Friction – This is caused when one object rubs past another.
- Elastic – This is caused by an object trying to return to its natural length e.g. a spring.

### DID YOU KNOW...



Forces can change the size or shape of an object



Forces are measured in Newtons using a tool called a Newton Meter. This is named after Sir Isaac Newton who 'discovered' gravity when he saw an apple fall from a tree.

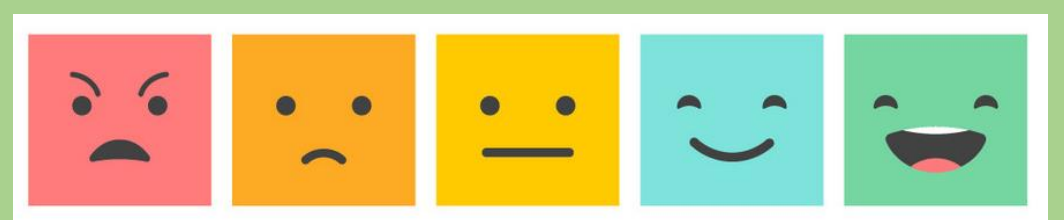
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# RUN THE ACTIVITY



Cut out the bike and arrows below and design your own bike showing where different forces can be found.

