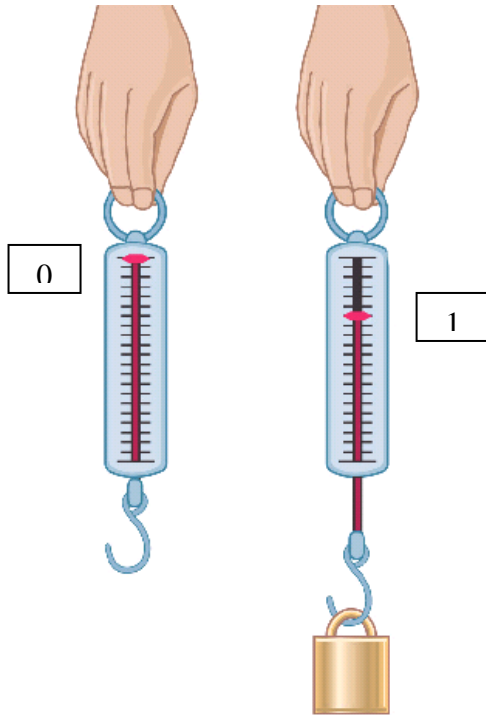


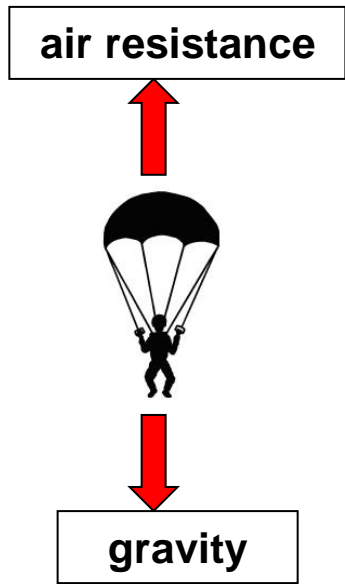
4E FRICTION

Glossary
air resistance – the force that air exerts on a moving object
force – a push, pull, twist or turn
forcemeter – a device used to measure forces (sometimes called a newtonmeter)
friction – is the force between two moving surfaces
gravity – the force that causes all objects to fall to the ground
mass – the amount of material in an object measured in grams (g)
newtons – the units used to measure forces (N)
speed – how fast an object is moving
stationary – not moving
water resistance – the force that water exerts on a moving object
weight – the force downward on an object caused by gravity

Compare the readings on these two **forcemeters**;



A **mass** of 100 grams will exert a **force (weight)** of **1 Newton (1N)**.



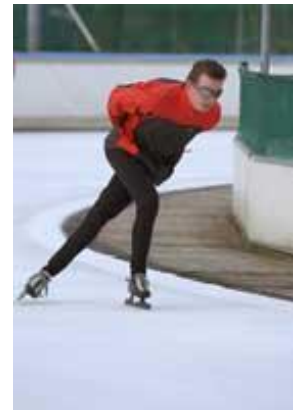
When we rub our hands together the warmth

we feel is because of **friction**. Both **air resistance** and **water resistance** are also types of **friction**.

The **force** that pushes against us when we are swimming is called **water resistance**.



Skating on ice is an example of where **low friction** is useful.



The deep tread on these tractor tires creates **high friction** when the vehicle brakes.

