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)

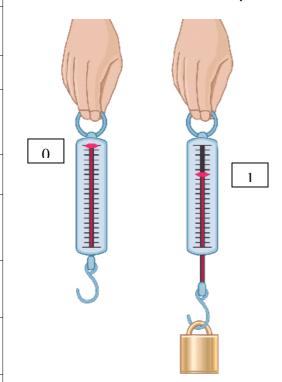
newtons – the units used to measure forces (N)

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).



gravity

When we

rub our

together

warmth

hands

the



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.

