

Weight, Friction, and Equilibrium

Weight

Force of Weight (in Newtons) $\rightarrow$ **$F_w = mg$** $\leftarrow$ Mass (in kg)

Acceleration of gravity (9.8 m/s^2)

Weight equals mass times the acceleration of gravity.

Weight is the force of gravity on mass.

Mass is the amount matter (atoms and molecules) of an object.

Weight changes if gravity changes; mass does not change with gravity.



On another planet your mass would be the same, but your weight would change depending on the amount of gravity.

On the moon you would weight 1/6th your weight on the earth, because the moon's gravity is 1/6th that of earth's. A large bag of dogfood could be carried easily with one arm.

Ex. What is the weight of a 2 kg mass?

Variables:
2 kg = m
 $g = 9.8 \text{ m/s}^2$
 $F_w = ?$

Equation:
 $F_w = mg$
Solve:
 $F = (2 \text{ kg})(9.8 \text{ m/s}^2)$
 $F = 19.6 \text{ N}$

Ex. What is the mass of a 39.2 N mass?

Variables:
 $g = 9.8 \text{ m/s}^2$
 $39.2 \text{ N} = F_w$
 $m = ?$

Equation: $F_w = mg$
 $m = F_w/g$
Solve:
 $m = (39.2 \text{ N})/(9.8 \text{ m/s}^2)$
 $m = 4 \text{ kg}$

If you know mass you can find weight; if you know weight you can find mass.

$F_w = mg$ allows you to convert between mass and weight easily.



The Feather or the Hammer?

Do heavy things fall faster?
NO! They fall at the same rate.



Heavy and light object fall at the same rate.

g is a constant — 9.8 m/s^2
The acceleration of all falling objects is the same.

Yet you know that a hammer will fall faster than a feather. Why?
Because the feather has more air friction.

Friction

Friction is caused by two things moving against each other.

Friction always opposes motion.

Friction causes things to wear out and causes **heat**, so we use **lubricants** to reduce friction.



$$\text{Net Force} = 100\text{N} - 20\text{N} = 80\text{N (right)}$$

Kinds of Friction (from most to least friction): sliding (rubbing) friction; rolling friction; viscous friction (in fluids); air friction.

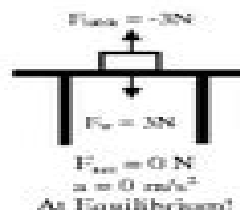
Equilibrium (State of Equality)

At equilibrium the following are true:

$F_{\text{net}} = 0 \text{ N}$ (no net force)
 $a = 0 \text{ m/s}^2$ (no acceleration)
 $\Delta v = 0 \text{ m/s}$ (constant speed)

An object at rest is also at equilibrium with a constant speed of 0 m/s.

Object on a Table



Object at Constant Speed



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