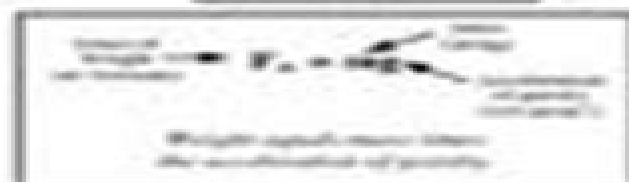


Weight, Friction, and Equilibrium

Weight



Weight is the force of gravity on mass.

Mass is the amount matter contains and independent of its shape.

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



The smaller planet underneath would be the better, but your weight would change, depend on the amount of gravity.

On the dense planet weight would be greater than on the earth because the amount of gravity is 1.66x that of earth. A large bag of dog food would be carried much more easily.

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

Question: 2 kg is the $g = 9.8 \text{ m/s}^2$ $F_g = ?$	Equation: $F_g = m \cdot g$ Solve: $F_g = (2 \text{ kg})(9.8 \text{ m/s}^2)$ $F_g = 19.6 \text{ N}$
--	---

Ex. What is the mass of a 20.2 N mass?

Question: $g = 9.8 \text{ m/s}^2$ 20.2 N is F_g $m = ?$	Equation: $F_g = m \cdot g$ also $F_g = m \cdot g$ Solve: $m = (20.2 \text{ N}) / (9.8 \text{ m/s}^2)$ $m = 2.06 \text{ kg}$
---	---

If you know mass, you can find weight. If you know weight, you can find mass.

$F_g = m \cdot g$ affects you to control balance, movement, weight easily.

Do 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 $\rightarrow 9.8 \text{ m/s}^2$
 The acceleration of all falling objects in the same.

But 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 slow and eventually **stop**, or move **slower** to motion friction.



Net Force = 100N - 20N = 80N right

Results of Friction (slow, stop, or fast) (friction) (slowing, stopping) (friction, rolling, friction, impact, friction, the ball, air friction)

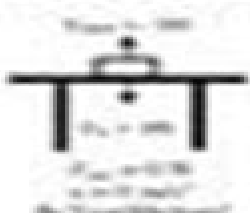
Equilibrium (State of Equilibrium)

An equilibrium the following are true:

$F_{net} = 0 \text{ N}$ (no net forces)
 $a = 0 \text{ m/s}^2$ (no acceleration)
 An object constant speeds

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

Object on a Table



Object at Constant Speed



Weight Friction And Equilibrium Worksheet Answer Key

JS Bruner



Weight Friction And Equilibrium Worksheet Answer Key:

Whispering the Strategies of Language: An Psychological Quest through **Weight Friction And Equilibrium Worksheet Answer Key**

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