

Name: _____ Period: _____

Guided Reading for Mass, Weight & Inertia

Follow the link: http://www.colorado.edu/physics/2000/periodic_table/mass.html

1. The mass of an object is simply the amount of _____ the object is made of.
2. Weight is a measurement of _____.
3. Your mass is the same WHEREVER you are, such as the _____ and _____.
4. Your mass doesn't change anywhere, because the amount of _____ you're made of does not change.
5. *Weight* depends on how much _____ is acting on you at the moment.
6. You would *weigh* less on the _____ than on Earth and almost nothing in _____ space.
7. But on earth, _____ is the same so basically mass and weight are considered to be the same here.

Continue to the next link: <http://www.physicsclassroom.com/class/newtlaws/u2l1b.cfm>

NEWTON's Laws Lesson 1

1. In your own words, try to **restate** Newton's first Law:

2. Before Newton, what idea about motion did people have for 2000 years that was wrong?

Galileo and the Concept of Inertia

What did Galileo reason was the reason all things come to a stop?

Forces Don't *Keep* Objects Moving

What did Newton declare about forces needing to be present to keep an object moving?

What is the reason then objects stop moving?

Mass as a Measure of the Amount of Inertia.

1. All objects _____ changes in their state of motion. *This is inertia.*
2. What makes objects resist this change in motion more?
3. So, the greater the mass of an object, the more _____ it has. The more _____ to its change in motion.
4. Explain why I would not get hurt if I tried to break a brick over my hand with a hammer.

Continue on this website by reading the questions and trying to answer them.

Grom Guided Reading Intro to Mass, Weight and Inertia