

Web Quest!! – Measurements

Go to following websites, follow directions and fill in the Questions

1) <http://www.ohaus.com/input/tutorials/tbb/TBBread.html>

Triple Beam Balance Scale Reading Exercise:

Push NEXT and read directions

Push New Unknown and read the scale. What is the mass? _____ Check Weight.

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2) <http://www.exploratorium.edu/ronh/weight/>

Read Directions and Enter in your weight or a made up weight:

The Beginning Weight: _____

What is your weight on other planets?

Mercury	Pluto
Venus	Io
The Moon	Europa
Mars	Ganymede
Jupiter	Callisto
Saturn	The Sun
Uranus	A White Dwarf
Neptune	A Neutron Star

Read “What Is Going On?” and fill in the blanks:

We often use the terms "_____ " and "_____ " interchangeably in our daily speech, but to an _____ or a _____ they are completely different things.

The mass of a body is a _____ it contains. An object with mass has a quality called _____. If you shake an object like a stone in your hand, you would notice that it takes a push to get it moving, and another push to stop it again. If the stone is at rest, it wants to remain at rest. Once you've got it _____, it wants to _____. This quality or "_____ " of matter is its inertia. _____ is a measure of how much _____ an object displays.

_____ is an entirely different thing. Every object in the universe with mass attracts every other object with mass. The amount of attraction depends on the size of the masses and how far apart they are. For everyday-sized objects, this _____ pull is vanishingly small, but the pull between a very large object, like the Earth, and another object, like you, can be easily measured. How? All you have to do is stand on a _____! Scales measure the _____ between you and the Earth. This force of attraction between you and the Earth (or any other planet) is called your _____.

If you are in a _____ far between the stars and you put a _____ underneath you, the scale would read _____. Your weight is _____. You are _____. There is an anvil floating next to you. It's also _____. Are you or the anvil mass-less? Absolutely not. If you _____ the anvil and tried to _____ it, you would have to push it to get it going and pull it to get it to stop. It still has _____, and hence _____, yet it has no _____. See the difference?

3) http://www.bgfl.org/bgfl/custom/resources_ftp/client_ftp/ks2/maths/measures/index.htm

Units of Measurement:

Which two units should Jack use to measure Mass? _____

Which two units should Jack use to measure Capacity? _____

Which two units should Jack use to measure Length? _____

Reading Mass:

How much does the first parcel weigh? _____ kilograms

How much does the second parcel weigh? _____ grams

How much does the third parcel weigh? _____ grams

Reading Volume and Capacity:

How much water is in the first jug? _____ millilitres

How much water is in the second jug? _____ millilitres

How much water is in the third jug? _____ millilitres

Reading Length:

How long is the first pencil? _____ centimetres

How long is the second pencil? _____ centimetres

How long is the third pencil? _____ centimetres

4) http://academic.brooklyn.cuny.edu/geology/leveson/core/graphics/density/density_sim3x.html

Density Testing Lab – Choose four rocks to calculate Density!

a) **Rock #** _____

Initial Water Level: _____ **Immerse the mineral!** Water level with mineral: _____

Mass of mineral: _____ **Calculate the Density!** _____

b) **Rock #** _____

Initial Water Level: _____ **Immerse the mineral!** Water level with mineral: _____

Mass of mineral: _____ **Calculate the Density!** _____

c) **Rock #** _____

Initial Water Level: _____ **Immerse the mineral!** Water level with mineral: _____

Mass of mineral: _____ **Calculate the Density!** _____

d) **Rock #** _____

Initial Water Level: _____ **Immerse the mineral!** Water level with mineral: _____

Mass of mineral: _____ **Calculate the Density!** _____