Mass Vs Weight

Name:_____ Period:____

Mass is…	Weight is…
Stuff. Mass measures how much matter is in something.	A force. Weight measures how much gravity is pulling on something.
Measured in grams.	Measured in newtons.
Always Remains the same.	Can change.
Doesn't change no matter where you are.	Changes depending on how much gravity is present.
Measured with a balance/electronic scale	Measured with a spring scale

How does the scale demo show that weight is a measure of force, not matter?

The more force the more weight even though the obje
stays the same

Ever wonder what things would weight on other planets?

Multiply the Earth weight by the correct correlation umber next to each plant to find the "new" weight.

Hint: 1 Lb = .4535 kg

Planet	Mass (kg)	= Weight
Earth 1.0	100 kg 220lbs	220 lbs
Mercury 0.4	100 kg 220lbs	88lbs
Venus 0.9	100 kg	198lbs
Mars 0.4	100 kg	88lbs
Jupiter 2.5	100 kg	550lbs
Saturn 1.1	100 kg	242lbs
Uranus 0.8	100 kg	176 lbs
Neptune 1.2	100 kg	264lbs
Moon 0.17	100 kg	37.4lbs