NAME_____ DATE_____

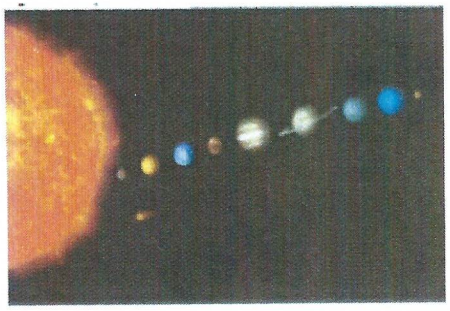
OUR WEIGHT ON OTHER PLANETS

Use the words below to fill in the gaps:

Different planets have different gravitational pulls. This means that you weigh less on Pluto than you do on Earth.

To find your weight on other planets, multiply your mass (in kg) by the planet's gravity, g.

i.e. On Earth, g =9.8, so if your mass is 50kg, your weight = 50 x 10 = 500 newtons.



Location	Mass (kg)	Gravity	Weight(N)
Earth		9.8	
Outer space		0	
Earth's moon		1.7	
Venus		8.8	
Mars		3.8	
Mercury		3.8	
Jupiter		26	
Saturn		11.2	
Uranus		10.5	
Neptune		13.3	
Pluto		0.61	

Use the words to fill in the gaps:

SIZE GRAVITY DENSITY MASS NEWTONS WEIGHT

Weight is a measurement of the force of _____ pulling you down towards Earth. It is measured in _____. Different planets have different gravitational pulls because of their _____ and _____. Your _____ would change on these planets because the force of gravity is different. Your _____ on the other hand stays the same because this is not effected by gravity.