



Name _____

Gravity is an invisible force that pulls on things. The pull of earth's gravity is what gives us weight. The size, mass, and density of a planet or moon determines its gravitational pull. We consider the surface gravity of the earth to be 1. Look at the chart of surface gravities of the moon and other planets and predict what you think your weight would be on each of them.

My weight on earth is _____.

	Surface Gravity	Predicted Weight	Actual Weight	Difference
Moon	.16			
Mercury	.39			
Venus	.91			
Mars	.38			
Jupiter	2.60			
Saturn	1.07			
Uranus	.90			
Neptune	1.15			
Pluto	.05			

On which planet would you weigh the least? _____

On which planets would you weigh more than on the earth? _____

On which planets would you weigh nearly the same as on earth? _____