Mass vs. Weight Video Activity

Instructions: Complete the following fill in the blanks about the definitions explored in the "Mass vs Weight - Part 1 – Introduction" video from the Minds On. Use the word bank to help you.

Word Bank:

gravity mass weight 360 matter orbit masses

gravity 60 0 mass earth moon gravity sun

_____ is the vertical force exerted by a _____ as a result of gravity. It is the strength of the gravitational pull on the object. How heavy is it?

An astronaut on Earth would weigh _____ pounds when wearing their space suit. On the moon, the same astronaut would weigh _____ pounds. And in orbit around the Earth, the same astronaut would weigh ___ pounds. That is because in Space there is no _____.

_____ is the property of a body that causes it to have weight in a gravitational field. The mass of an object is not dependent on _____ Mass is the amount of _____ in an object. Forces affect objects with less mass more than objects with greater masses. An animal's mass would be the same on _____ on the _____ and in orbit.

_____ is a force that governs motion throughout the universe. On Earth, it holds us to the ground. It keeps the Moon in _____ around us. It keeps the Earth in orbit around the _____. It is the attraction between any two _____. Gravity is like the glue that holds the universe together!