Activity 8.14

Mass vs Weight – Comprehension

1. Use your textbook to help you fill in the blanks.

   (a) _____ is a measure of how much _____ is in an object. _____ is a measure of the force of _____ pulling an object.

   (b) On Earth, everything is pulled by the _____ force of the Earth. So, both the _____ and _____ of an object are the same.

   (c) The gravity on the Earth's moon is about one-sixth that of the Earth. This means you would weigh _____ as much when on the surface of the _____.

   (d) An object in _____, where there is no observable _____ acting on it, would have the same mass as it does on Earth, but would have no _____ at all.

2. Use your knowledge of forces, motion, mass and gravity to describe how your mass and weight would change on a journey from the surface of Earth to the surface of Earth's moon.

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