

## Activity 8.14



### Mass vs Weight – Comprehension

- Use your textbook to help you fill in the blanks.
  - \_\_\_\_\_ is a measure of how much \_\_\_\_\_ is in an object. \_\_\_\_\_ is a measure of the force of \_\_\_\_\_ pulling an object.
  - On Earth, everything is pulled by the \_\_\_\_\_ force of the Earth. So, both the \_\_\_\_\_ and \_\_\_\_\_ of an object are the same.
  - 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 \_\_\_\_\_.
  - 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.
- 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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