

Name _____

Weight vs. Mass: Unpacking the Difference

Multiple Choice Questions

1. What is mass a measure of?
 - a) The force of gravity on an object
 - b) The total amount of matter in an object
 - c) The size of an object
 - d) The color of an object

2. What is weight a measure of?
 - a) The total amount of matter in an object
 - b) The force of gravity on an object
 - c) The size of an object
 - d) The temperature of an object

3. On which celestial body would an object with mass feel the heaviest?
 - a) The Moon
 - b) Mars
 - c) Earth
 - d) Pluto

4. How does weight differ from mass in terms of variability?
 - a) Mass can change depending on location, while weight remains constant.
 - b) Weight can change depending on location, while mass remains constant.
 - c) Both mass and weight change depending on location.
 - d) Neither mass nor weight change depending on location.

5. Why do astronauts aboard the International Space Station (ISS) experience weightlessness?
 - a) Because there is no gravity in space.
 - b) Because they are in continuous freefall around the Earth.
 - c) Because they are far from Earth's gravity.
 - d) Because the ISS is not affected by gravity.

