

Mass and Weight Review

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Understanding Gravity and God's Order

Name: _____

Date: _____

Answer the following questions based on what you learned about mass, weight, and gravity.

1. What is mass a measure of?

- A. Gravitational force
- B. Amount of matter
- C. Weight of an object

2. An object's mass changes depending on where it is in the universe.

- True False

3. How does gravity affect an object's weight?

4. Weight is calculated using the formula: $\text{Weight} = \text{Mass} \times \underline{\hspace{1cm}}$.

5. Why might an astronaut weigh differently on the moon?

- A. The moon has no gravity
- B. The moon's gravity is weaker
- C. The astronaut loses mass

6. On Earth, weight is constant no matter where you are.

- True False

7. Explain the difference between mass and weight in your own words.

8. In Colossians 1:17, it says that in Him all things together.

9. Which of the following best describes weight?

- A. The same everywhere
- B. Dependent on mass only
- C. Dependent on gravitational pull

10. God's physical laws, like gravity, demonstrate His order in the universe.

- True False

Answer Key

1. Amount of matter 2. False 3. Gravity pulls on an object's mass, which determines its weight. If the gravitational pull is stronger, the weight increases, and if it's weaker, the weight decreases. 4. Gravitational Acceleration 5. The moon's gravity is weaker 6. False 7. Mass is how much matter is in an object and does not change. Weight is how heavy that object is based on the gravitational pull acting on it, which can change depending on where you are. 8. hold 9. Dependent on gravitational pull 10. True

