

Name _____

Gravity Unveiled: The Connection Between Earth's Composition and Gravitational Pull

Multiple Choice Questions

1. What is the primary factor that determines the strength of Earth's gravitational pull?

- a. Distance from the Moon
- b. Distance from the Sun
- c. Mass of objects and their distance from the Earth's center
- d. Earth's composition

2. Which layer of the Earth is composed of liquid iron and nickel?

- a. Crust
- b. Mantle
- c. Outer Core
- d. Inner Core

3. Why do objects with greater mass feel heavier on Earth?

- a. Because they have more weight
- b. Because they experience a weaker gravitational pull
- c. Because they have a stronger gravitational pull acting on them
- d. Because they are closer to the Earth's center

4. What instrument do scientists use to measure the strength of gravity at different locations on Earth?

- a. Thermometer
- b. Gravimeter
- c. Barometer
- d. Spectrometer

5. How does Earth's composition contribute to variations in gravitational strength on the planet's surface?

- a. Earth's composition has no impact on gravitational strength.
- b. Denser rock leads to stronger gravitational pull, while less dense rock results in weaker gravitational pull.
- c. Gravitational strength depends solely on the altitude above sea level.
- d. Gravitational strength is determined by the distance from the Earth's core to the surface.

