

Name _____

The Mysteries of Gravity

Multiple Choice Questions

1. What is gravity?
 - a) A force of repulsion
 - b) A force that pushes objects apart
 - c) A force of attraction that pulls objects toward each other
 - d) A force that only affects objects in space

2. Who formulated the law of universal gravitation?
 - a) Albert Einstein
 - b) Sir Isaac Newton
 - c) Galileo Galilei
 - d) Johannes Kepler

3. What is the relationship between mass and weight?
 - a) Mass is the force of gravity acting on an object's weight.
 - b) Mass and weight are the same thing.
 - c) Mass is the amount of matter in an object, while weight is the force of gravity acting on an object's mass.
 - d) Mass determines an object's weight, but weight does not depend on mass.

4. What is escape velocity?
 - a) The speed at which an object escapes Earth's atmosphere
 - b) The speed at which an object leaves a planet's gravitational pull
 - c) The speed at which an object reaches orbit around Earth
 - d) The speed at which an object reaches the Moon

5. What happens to the strength of gravity as you move farther away from a massive object?
 - a) It increases.
 - b) It decreases.
 - c) It remains the same.
 - d) It becomes repulsive.

