Name					



Gravity Quiz: Test Your Pull!

Instructions: Read each question carefully and select the letter of the correct answer. Circle the best choice.

- 1. Who first described the law of universal gravitation in the 1600s?
 - A. Galileo Galilei
 - B. Albert Einstein
 - C. Isaac Newton
 - D. Johannes Kepler
- 2. What happens to the gravitational force between two objects if the distance between them doubles?
 - A. It doubles
 - B. It becomes four times stronger
 - C. It becomes half as strong
 - D. It becomes four times weaker
- 3. On the Moon, astronauts weigh less than on Earth because:
 - A. The Moon's gravity is weaker due to its smaller mass
 - B. The Moon has no atmosphere
 - C. The Moon is farther from the Sun
 - D. The Moon rotates slower than Earth
- 4. Which of the following is NOT a direct effect of gravity?
 - A. Ocean tides
 - B. Satellites staying in orbit
 - C. Light bending near a black hole
 - D. A rainbow forming after rain
- 5. What keeps the planets in our Solar System moving in elliptical orbits around the Sun?
 - A. The Sun's gravity
 - B. Earth's rotation
 - C. The Moon's gravitational pull
 - D. The planets' own gravity



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- 6. If Earth's mass suddenly doubled but its size stayed the same, your weight would:
 - A. Stay the same
 - B. Double
 - C. Be cut in half
 - D. Increase by four times
- 7. Microgravity experienced in the International Space Station happens because:
 - A. There is no gravity in space
 - B. The ISS is far from Earth's gravitational pull
 - C. The ISS is in constant free fall around Earth
 - D. Astronauts turn off gravity generators
- 8. Which factor does NOT affect the strength of gravity between two objects?
 - A. The mass of the objects
 - B. The distance between the objects
 - C. The shape of the objects
 - D. The gravitational constant (G)



Bonus Question:

Which force is responsible for the Moon staying in orbit around Earth?

- A. Magnetism
- B. Friction
- C. Gravity
- D. Solar wind

