

1. What is the central idea of the passage?

- A. The sun has the most gravity in our solar system.
- B. Gravity is an invisible force that holds the universe together.
- C. Planets move very fast in space.
- D. The moon was created by an asteroid collision.

2. How does the passage explain why we stay on Earth instead of floating into space?

- A. The air we breathe keeps us grounded.
- B. Earth's gravitational pull is stronger than our own.
- C. The sun's heat pushes us down.
- D. The moon's gravity holds us in place.

3. Why do planets orbit the sun instead of crashing into it?

- A. The sun repels them with energy.
- B. The planets are too far away to be affected by gravity.
- C. Their speed and the sun's gravitational pull keep them in balance.
- D. The moon's gravity pulls them away from the sun.

4. What detail best supports the idea that gravity depends on mass?

- A. The sun contains 99% of the mass in the solar system and has the most gravity.
- B. The moon has less gravity than the Earth but still affects ocean tides.
- C. An astronaut weighs less on the moon than on Earth.
- D. Black holes have the strongest gravity in space.

5. What detail best supports the idea that gravity weakens with distance?

- A. The sun is far away from Earth, so its gravity affects us less than Earth's gravity does.

- B. The moon's gravity is strong enough to hold astronauts in place.
- C. A black hole's gravity is so strong that nothing can escape.
- D. Planets orbit the sun because of its gravitational pull.

6. What detail best supports the idea that gravity helped form the moon?

- A. Earth's gravity pulled leftover debris together after a large asteroid collision.
- B. The moon moves across the night sky in a predictable pattern.
- C. The sun's gravity keeps the planets in orbit.
- D. The moon's gravity affects ocean tides on Earth.