

Gravity and Inertia: Study Jams

Name: _____

Date: _____

1. Which of these can cause a moving object to change direction?
 - A. inertia
 - B. velocity
 - C. force
 - D. mass
2. What is gravitational force?
 - A. the force that keeps people from moving
 - B. the force of attraction between any two objects
 - C. the force that makes inert objects start moving
 - D. the only force that changes an object's velocity
3. Where is an object's center of gravity?
 - A. the exact center of its mass
 - B. the part that is closest to the Earth
 - C. any part of an object, as long as it has mass
 - D. all of the above
4. A paperclip and a computer are sitting on your desk. What is true about the gravitational force of these two objects?
 - A. The paperclip attracts the computer with less gravitational force than the computer attracts the paperclip.
 - B. The computer and the paperclip attract each other with equal gravitational force.
 - C. The computer attracts the paperclip with less gravitational force than the paperclip attracts the computer.
 - D. There is no gravitational force between the paperclip and the computer.
5. Why doesn't the Moon crash toward the Earth's surface?
 - A. It has very little inertia, so it stays in the sky and floats through space.
 - B. It has a lot of mass, so it feels the Earth's gravitational force less than smaller objects do.
 - C. It has more mass than the Earth, so it stays in one place while the Earth orbits it.
 - D. It is too small to fall through the Earth's atmosphere and reach the Earth's surface.