

Exploring Space ▪ Chapter 13 Pre-Assessment

Write the letter of the correct answer on the line at the left.

- _____ 1. When the forces on an object are balanced, the motion of the object will
 - a. speed up.
 - b. slow down.
 - c. change direction.
 - d. continue on its original path.
- _____ 2. Which of the following could NOT happen if the forces on an object are unbalanced?
 - a. The object will speed up.
 - b. The object will slow down.
 - c. The object will change direction.
 - d. The object will continue at the same speed on its original path.
- _____ 3. What force holds the planets in orbit around the sun?
 - a. gravity
 - b. friction
 - c. magnetic force
 - d. atomic force
- _____ 4. The force of gravity between two objects depends on the mass of the objects and the
 - a. speed at which they are moving.
 - b. amount of friction between them.
 - c. distance between them.
 - d. volume of the larger object.

Exploring Space ▪ Section 13.1 Quiz

If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.

- _____ 1. Rockets were developed in China hundreds of year ago.
- _____ 2. A rocket moves forward when gases shoot out of the back of the rocket.
- _____ 3. If a rocket that has just been launched moves slower than its orbital velocity, it will be propelled into space.
- _____ 4. In solid-fuel and liquid fuel rockets, oxygen is mixed with rocket fuels to aid combustion.
- _____ 5. In a multistage rocket, the smallest stage is the first stage to ignite.

Exploring Space ▪ Section 13.2 Quiz

Fill in the blank to complete each statement.

1. The launch of the satellite _____ began the space race.
2. The first American to orbit Earth was _____.
3. The _____ program allowed people to land on Earth's moon.
4. The first person to walk on the moon was _____.
5. True or false? No astronauts have visited the moon since the end of the Apollo program. _____

Exploring Space ▪ Section 13.3 Quiz

If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.

- _____ 1. A rover is a craft that carries people and equipment into orbit and back, and then can be reused for the same purpose.
- _____ 2. A space shuttle is a large artificial satellite where people can live and work for extended periods of time.
- _____ 3. A space probe has no crew, but carries scientific instruments to explore space.
- _____ 4. A space station is a small robot that moves around on the surface of the space object on which it lands.
- _____ 5. Space probes have visited or passed near every planet in our solar system.

Exploring Space ▪ *Section 13.4 Quiz*

Fill in the blank to complete each statement.

1. Space is nearly a _____, that is, it is nearly empty of all matter.
2. Microgravity is a condition in which an astronaut's _____ as measured on a scale would register near zero.
3. A _____ is an item used on Earth that was originally developed for use in space.
4. The collection of information about Earth without being in direct contact is called _____.
5. Three uses for artificial satellites are _____, _____, and _____.