

## Earth, Moon, and Sun ▪ Chapter 12 Pre-Assessment

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

- \_\_\_\_\_ 1. What is the source of most of Earth's heat and natural light?
  - a. the moon
  - b. Earth itself
  - c. the sun
  - d. stars other than the sun
- \_\_\_\_\_ 2. What force keeps Earth in orbit around the sun?
  - a. friction between Earth and the planets
  - b. gravity between Earth and the moon
  - c. friction between Earth and the sun
  - d. gravity between Earth and the sun
- \_\_\_\_\_ 3. How many natural satellites does Earth have?
  - a. one
  - b. two
  - c. six
  - d. dozens
- \_\_\_\_\_ 4. What causes day and night?
  - a. the tilt of Earth's axis
  - b. the sun moving behind the moon
  - c. Earth's movement around the sun
  - d. Earth's rotation on its axis

## Earth, Moon, and Sun ▪ Section 12.1 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. Earth's revolution causes day and night.
- \_\_\_\_\_ 2. Earth orbits the sun in an elliptical path.
- \_\_\_\_\_ 3. Earth's seasons are the result of only its revolution.
- \_\_\_\_\_ 4. Earth is closest to the sun during summer in the Northern Hemisphere.
- \_\_\_\_\_ 5. A(n) solstice occurs twice a year when the sun reaches its farthest position north or south of the equator.

## Earth, Moon, and Sun ▪ Section 12.2 Quiz

Fill in the blank to complete each statement.

1. \_\_\_\_\_ attracts every object in the universe toward another object.
2. An object with a mass of 20 kg would exert \_\_\_\_\_ of a gravitational force than an object with a mass of 2 kg.
3. If the distance between two objects were cut in half, the force of gravity would be \_\_\_\_\_ its original value.
4. A baseball has \_\_\_\_\_ inertia than a table tennis ball.
5. The two factors that keep Earth revolving around the sun are \_\_\_\_\_ and \_\_\_\_\_.

## Earth, Moon, and Sun ▪ Section 12.3 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. Phases of the moon, eclipses, and tides are the result of the moon's similar periods of rotation and revolution.
- \_\_\_\_\_ 2. To an observer on Earth, moon phases depend on how much of the sunlit side of the moon faces Earth.
- \_\_\_\_\_ 3. A solar eclipse occurs when the moon is between Earth and the sun.
- \_\_\_\_\_ 4. Earth blocks sunlight from reaching the moon during a lunar eclipse.
- \_\_\_\_\_ 5. The sun has a greater effect on Earth's tides than the moon because of its greater mass.

**Earth, Moon, and Sun** ▪ *Section 12.4 Quiz*

*Fill in the blank to complete each statement.*

1. \_\_\_\_\_ are plains of lava on the moon's surface.
2. The impacts of meteroids on the moon's surface created the many \_\_\_\_\_.
3. Temperatures on the moon vary widely because the moon has no \_\_\_\_\_.
4. Although the moon has no liquid water, there is evidence of \_\_\_\_\_ near its poles.
5. According to the collision-ring theory, Earth's moon formed when a space object struck Earth and the resulting debris \_\_\_\_\_.