

Assessment

Section Quiz**Section: Newton's Laws of Motion**

Match the correct description with the correct term. Write the letter in the space provided.

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| _____ 1. The tendency of all objects is to resist any change in motion. | a. Newton's first law of motion |
| _____ 2. An object at rest remains at rest, and an object in motion remains in motion at constant speed and in a straight line unless acted on by an unbalanced force. | b. Newton's second law of motion |
| _____ 3. All forces act in pairs. | c. Newton's third law of motion |
| _____ 4. The acceleration of an object depends on its mass and the amount of force applied. | d. inertia |

Write the letter of the correct answer in the space provided.

- _____ 5. The reaction force of a chair you are sitting on
- a.** is greater than your weight.
 - b.** is equal to your weight.
 - c.** is determined by many factors.
 - d.** varies.
- _____ 6. Which of the following is the equation for Newton's second law of motion?
- a.** $F = m \times a$
 - b.** $m = F \times a$
 - c.** $a = m \div F$
 - d.** $F = m \div a$
- _____ 7. Which is a common unbalanced force acting on objects in motion?
- a.** inertia
 - b.** acceleration
 - c.** friction
 - d.** speed