

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Chapter 3 Vocabulary

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| 1. States that the acceleration of an object is in the same direction as the net force on the object, and that the acceleration equals the net force divided by the mass.      | A. Centripetal Force          |
| 2. Force that opposes the sliding motion between two touching surfaces.                                                                                                        | B. Static Friction            |
| 3. Frictional force that prevents two surfaces from sliding past each other.                                                                                                   | C. Air Resistance             |
| 4. Frictional force that opposes the motion of two surfaces sliding past each other.                                                                                           | D. Sliding Friction           |
| 5. Force that opposes the motion of objects that move through the air.                                                                                                         | E. Gravity                    |
| 6. Attractive force between two objects that depends on the masses of the objects and the distance between them.                                                               | F. Momentum                   |
| 7. Gravitational force exerted on an object.                                                                                                                                   | G. Centripetal Acceleration   |
| 8. Acceleration of an object toward the center of a curved or circular path.                                                                                                   | H. Newton's 3rd Law of Motion |
| 9. A net force that is directed toward the center of a curved or circular path.                                                                                                | I. Friction                   |
| 10. States that when one object exerts a force on a second object, the second object exerts force on the first object that is equal in strength and in the opposite direction. | J. Weight                     |
| 11. Property of a moving object that equals its mass times its velocity.                                                                                                       | K. Newton's 2nd Law of Motion |