300 Vocab Chapter 3

energy	momentum	elastic collision
work	inelastic collision	kinetic energy
Newton's third law	joule	potential energy
law of conservation of energy	collision	impulse
law of conservation of momentum		

Section 3.1

1. The ____ states that the total amount of momentum in a closed system cannot change.
2. ____ is calculated by multiplying a force and the time needed for the force to act.
3. According to ____, for every action force, there is a reaction force equal in strength and opposite in direction.
4. The mass of an object multiplied by its velocity equals its ____.

Section 3.2

5. The ____ states that energy can never be created or destroyed, just changed from one form to another.
6. The unit of energy needed to push with a force of one newton over a distance of one meter is one ____.
7. Energy due to position is known as ____.
8. Energy of motion is called ____.
9. ____ is needed to cause change to an object, such as changing its speed or height.
10. ____ is force times distance moved in the direction of the force.

Section 3.3

11. When two or more objects hit each other, a ____ occurs.
12. When two objects collide and stick together or change shape, it is called a(n) ____.
13. Two billiard balls bouncing off each other is an example of a(n) ____.