

Name _____

Questions and Review

1. Define momentum.

Symbol - _____ Unit - _____ Equation - _____

2. What is the law of conservation of momentum?

3. Write the equation for the conservation of momentum for 2 objects.

4. What is the difference between elastic and inelastic collisions?

5. Give an example of each and explain what is occurring. A sketch would be good

Elastic Collision

Inelastic Collision

6. Give an example of an “explosion” situation, draw a picture below.

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7. How does mass affect velocity when momentum is constant?

8. During an elastic collision, is momentum conserved? How do you know? Is kinetic energy conserved? Why or why not.

9. During an inelastic collision, is momentum conserved? How do you know? Is kinetic energy conserved? Why or why not.

10. During an “explosion”, is momentum conserved? How do you know? Is kinetic energy conserved? Why or why not.