

Physical Science – Worksheet 3 – Momentum and Energy

Please read the chapter and answer the following questions:

1. Momentum
2. Impulse
3. Conservation of Momentum
4. Elastic Collision
5. Inelastic Collision
6. Work
7. Power
8. If a car weighs 1294 kg and is traveling at 36 meters/second, what momentum does the car possess?
9. Both the amount of force and the time applied affect the momentum of an object. Explain?
10. If you catch a baseball with your bare hands it may sting. How can you reduce the pain associated with this catch? Why does that work based on the concepts of momentum?
11. If you held a sack of sugar over your head for one hour, would you have done any work? Why/Why not?
12. Explain in great detail what energy is. Then explain the difference between potential and Kinetic Energy. Finally, draw diagrams that illustrate the difference.