Energy and Work Study Guide

Chapters 4 & 5

1. What units do we use to measure the energy we get from foods?
2. The amount of kinetic energy a moving object has depend on what two factors?
3. What is the SI unit for energy?
4. What type of energy is stored in the food we eat?
5. To make a car move, chemical potential energy must be transferred into what type of energy?
6. What type of energy is stored in a slingshot?
7. What in mass transformed into in a nuclear fusion reaction?
8. What is nuclear fission?
9. According to the law of conservation of energy, the total amount of energy in the universe \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. What is mechanical energy?
11. What is thermal energy?
12. If a marble is at the edge of the desk, it has what type of energy because of its position?
13. What type of energy is energy in the form of motion?
14. What is gravitational potential energy?
15. What is the unit for power?
16. What is the rate at which work is done called?
17. If a force of 25 N is required to lift a box 5 meters onto a shelf. How much work is done?
18. What is the definition of work?
19. What unit do we use to measure work?
20. What is nuclear fusion?