#### **Energy and Energy Transformation Study Guide**

- 1. Define energy-
- 2. What is kinetic energy?
- 3. What is potential energy?
- 4. Define the following forms of energy:

Mechanical energy-	Thermal energy-	Sound energy-
Radiant energy-	Electrical energy	Gravitational potential-
Elastic potential-	Chemical energy-	Nuclear energy-

- 5. What does the law of conservation of energy state?
- 6. Describe the energy conversion that occurs when you turn on a flashlight.
- Describe the energy conversion that occurs when you eat a cheeseburger.
- 8. What kind of energy does a skateboarder possess at the top of a hill?
- 9. What kind of energy does a skateboarder possess moving down the hill?
- 10. What is happening to the total amount of energy in the universe? Is it rising? Is it falling? Is it staying the same? Explain your answer.
- 11. What is the formula for calculating work?
- A force of 125 N is applied to move a container 4.2 m. Calculate the work being done.
- 13. 848 J of work is done on an object using 106 N of force. How far was the object moved?
- 14. What is the purpose of machines?
- 15. What are the 6 simple machines?
- 16. What is the formula for machine efficiency?
- 17. 487 J of work are put into a pulley system that does 395 J of work. What is the efficiency of the machine?
- 18. What is the output when the efficiency is 62% and the input is 39 J?
- 19. What is mechanical advantage? How is it calculated?
- 20. 620 N of force are put into a lever system that puts out 985 N of force. What is the mechanical advantage of this pulley system?
- 21. A machine has a mechanical advantage of 5. The input force is 50 N. What is the output force?
- 22. What is the formula for calculating power?

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