Energy Quiz Sections 1-3 Study Guide

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_\_\_\_\_\_\_

Work and Power Review:

W=F X D

1. How much work will be done on an object if 25N of force moves the object 6 meters?

P= W/T

1. If person A and person B both used the same amount of work you calculated in question 1, but person A completed the work in 10 seconds and person B completed the work in 5 seconds, which person had more power? How much power did person A have? How much power did person B have?

Energy Types:

1. Explain four different types of energy and give examples of each

Energy Transfer:

1. Energy can’t be created or destroyed according to the law of conservation of energy.
   1. What happens to energy once it’s been used?
   2. Explain one example of how one type of energy is transferred into another type of energy

Thermal Energy:

1. What has more thermal energy, Lake Michigan at 25 degrees C or boiling water on your stove? Why?
2. What is the only way thermal energy can be transferred through empty space?
3. Give examples of thermal energy being transferred through conduction, radiation, and convection.