Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is energy? When do you use energy?
2. What is the SI unit for energy?
3. What is the difference between kinetic and potential energy? Give one example of each.
4. Provide an example of the following:
5. Thermal energy
6. Chemical energy
7. Electromagnetic energy
8. Nuclear energy
9. Mechanical energy
10. Sound energy
11. What is the difference between fission and fusion?
12. How was the sun made?
13. Define the Law of Conservation of Energy.
14. What is an energy conversion?
15. You serve a volleyball with a mass of 2.1 kg. The ball leaves your hand with a speed of 30 m/s. The ball has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy. Calculate it. Show your work.
16. A car is traveling with a velocity of 40 m/s and has a mass of 1120 kg. The car has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy. Calculate it.