Energy Types and Transformations -
Review Crossword Puzzle

Name ____________________
Period ___Date ________

Across
2. Nuclear ______ is the combining of atoms. This process takes place in the sun and other stars.
7. As a roller coaster goes from the top of a hill to the bottom, GPE is _______ into kinetic energy.
11. Energy readily _______ from one form to another
13. The ______ energy for most electrical appliances is electrical energy.
15. Solar panels transform electromagnetic (light) energy into ______ and thermal energy.
18. _______ potential energy is potential energy that depends on an object’s mass, height, and the acceleration due to gravity
21. The ability to do work
22. A ball at the top of a ramp has ____ gravitational potential energy than the same ball after it rolls to the bottom of the ramp.

Down
1. In a battery, chemical potential energy is transformed into ______ energy
2. ______ has chemical potential energy because our bodies turn it into energy that we use to live.
3. 9.81 meters per second squared is the acceleration due to ______.
4. Nuclear _______ is the splitting of atoms. This is the process used in nuclear power plants and submarines.
5. Plants use __________ to turn the energy in sunlight (electromagnetic) to chemical energy (food).
6. __________ energy (or light energy) travels from the sun to Earth across empty space (a vacuum) in the form of _______ waves (the blanks are the same word)
8. ______ energy is the kinetic energy of atoms and molecules vibrating is related to heat and temperature.
Across
23. Energy of a moving object due to the object's motion
25. ________ energy comes from the separation of oppositely charged particles, as in a lightening bolt
27. ________ potential energy is derived from the flow of negatively charged particles (electrons)
28. ________ potential energy is energy derived from the magnetic properties of materials.
29. Nuclear fission creates ________ waste materials.

Down
9. Electromagnetic energy, sound energy, thermal energy, and nuclear energy are collectively called ________ energy
10. A car transforms chemical energy from ________ into several different types of energy, including kinetic energy, electromagnetic energy, thermal energy and sound.
12. An explosion is caused when ________ energy is transformed into thermal and sound energy.
14. When a ball is halfway down an inclined ramp, it has _____ gravitational potential energy and kinetic energy.
16. In a radiometer, thermal energy is the ________ energy, between electromagnetic (the input energy) and kinetic energy (the output energy).
17. Energy that an object has because of its position, shape, or condition.
19. The combination of potential energy and kinetic energy is called ________ energy.
20. Many energy systems _____ energy in the form of thermal energy.
24. ________ potential energy is energy stored in any type of stretched or compressed elastic material, such as a spring or rubber band.
26. The ________ energy when a balloon is blown up is elastic potential energy.