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**Unit 9 Energy- Vocabulary List**

**Section 1**

1. **energy**-the ability to do work.
2. **kinetic energy**-the energy of motion.

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1. **potential energy** – the energy an object has because of its position.
2. **sound energy**-caused by an object’s vibrations.
3. **atomic (nuclear) energy**-A form of energy that comes from a tiny amount of matter. It is used to generate electrical energy and it gives the sun its energy. This energy comes from changes in the nucleus of an atom.
4. **chemical energy**-the energy of a compound that changes as its atoms are rearranged.
5. **heat (thermal) energy**-All of the kinetic energy due to random motion of the particles that make up an object.
6. **electrical energy**-the energy of moving electrons.
7. **mechanical energy**-the total energy of motion and position of an object. Both potential energy and kinetic energy are kinds of mechanical energy.

10. **light energy-**produced by the vibrations of electrically charged particles.

**Section 2**

11. **energy conversion**-a change of one form of energy to another.

**Section 3**

12. **Law of Conservation of Energy**-energy cannot be created or destroyed.

**Section 4**

13. **Non Renewable resource** – a resource that forms at a rate that is much slower than the rate at which it is consumed.

14. **Renewable resource** – a natural resource that can be replaced at the same rate at which the resource is consumed.

15. **Fossil Fuels** – a nonrenewable energy resource formed from the remains of organisms that lived long ago.

16. **Solar** – sunlight can be changed to electrical energy through solar cells.

17. **Wind** – Wind is caused by the sun’s heating of the Earth’s surface. Because the Earth’s surface is not heated evenly, wind is created. The kinetic energy of wind can be converted to create electrical energy.

18. **Geothermal Energy**– thermal energy caused by the heating of the Earth’s crust. Power plants pump water next to hot rock which creates steam and in turn causes a generator to work and create electricity.

19.  **biomass**-burning plants, wood and water to release energy they gained from the sun.