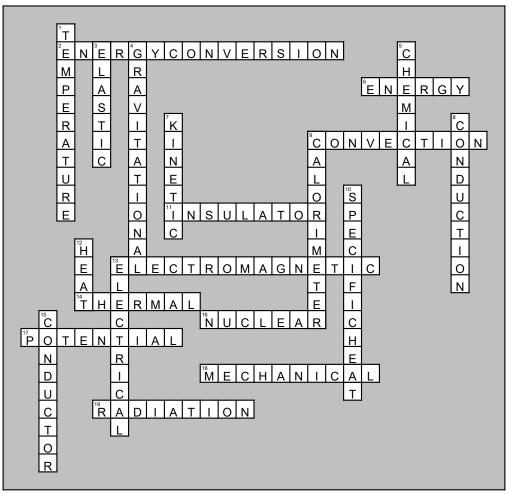
Crossword



<u>Across</u>

- 2. The process of changing (transforming) one form of energy into another.
- 6. The ability to do work in a system. Measured in "joules" in the metric system.
- Transfer of energy between objects of different heat. Warmer matter rises, cooler matter sinks, causing currents in air, water, or land.
- 11. Materials that resist or prevent the flow of heat or electricity. e.g. glass, wood, air.
- Energy that travels through space without transfering energy between particles. Radio, microwave, infrared, visible light, UV, x ray, gamma ray is the _____ spectrum.
- 14. Energy relating to heat and motion of microscopic particles comprising a substance. The faster the atoms move, the greater the energy.
- 16. Energy stored in the central mass of an atom. Fission (splitting atoms) and fusion (combining smaller atoms together) are examples.
- 17. Type of energy that is stored or held in readiness for use to do work. (mgh)
- The energy associated with the motion and position of everyday objects. Total energy = PE + KE. Often involving machines.
- 19. Transfer of heat through space (without conduction between particles). e.g. bonfires warm us up.

<u>Down</u>

- 1. The average kinetic energy (KE) of the particles in an object. How fast the molecules move in a system.
- 3. Type of potential energy (PE) that is stretched or compressed. e.g. springs, strings, bungee cords, rubber bands.
- 4. Type of potential energy (PE) that depends on the height an object rests upon, its mass, and acceleration due to gravity.
- 5. The energy stored in the bonds of molecules and compounds. e.g. fuel, food, ammunition.
- Type of energy of a moving object. By virtue of its motion an object is capable of doing work. (1/2 mv2)
- Transfer of energy when objects touch. No transfer of matter. Energy depends on the amount and effectiveness of collisions.
- 9. Instrument used to measure specific heat of substances.
- 10. The amount of heat needed to raise the temperature of a substance. The capacity to hold heat (resist a change in heat). Water's is very high for a liquid.
- Flows from warmer objects towards cooler objects. Includes the mass of the object(s).
- 13. Energy related to the flow of electrons and associated with ____ charges.
- 15. Materials that allow the flow of heat or electricity readily (easily). e.g. metals.