

# Physical Science Crossword Puzzle Project

## Across

- 3.** is the resistance of any physical object to any change in its state of motion.
- 7.** is the rate at which an object covers distance.
- 10.** transfer occurs by three mechanisms: conduction, convection, and radiation.
- 11.** is the base unit for length or distance.
- 14.** the amount of work (or energy transfer) in a certain amount of time.
- 16.** speed and direction of an object.
- 17.** transfer of energy that occurs when a force makes an object move.
- 19.** is the variable that is changed or controlled in a scientific experiment.
- 20.** a material or an object that does not easily allow heat, electricity, light, or sound to pass through it.
- 21.** is the metric unit base for temperature.

## Down

- 1.** the amount of heat needed to raise the temperature of one gram of a substance by one degree Celsius, or to raise the temperature of one pound of a substance by one degree Fahrenheit.
- 2.** a unit of mass equal to 1000 grams.
- 4.** is an idea or explanation that you then test through study and experimentation.
- 5.** a measure of the warmth or coldness of an object or substance with reference to some standard value.
- 6.** are the variables that the experimenter changes to test their dependent variable.
- 8.** the process in which energy is emitted as particles or waves.
- 9.** can be transferred from one object to another in the form of heat.
- 12.** heat transferred in a gas or liquid by the circulation of currents from one region to another.
- 13.** the amount of energy exerted when a force of one newton is applied over a displacement of one meter.
- 15.** energy that is transferred by the movement of electrons or ions.
- 18.** something that causes a change in the motion of an object. (an object's mass multiplied by its acceleration)

