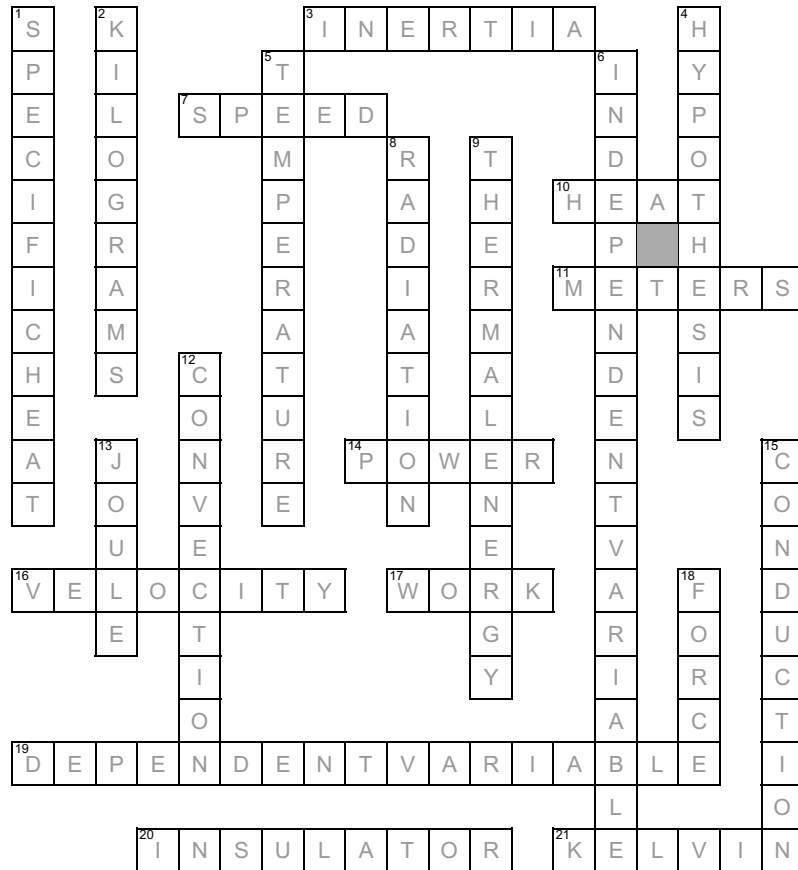


# Physical Science Crossword Puzzle Project



## 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 transferred) 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)