

Name: _____

Physical Science Chapter 16 Vocabulary Crossword Puzzle

Fill in the vocabulary term for each definition.

The crossword puzzle grid consists of 17 numbered starting points for words:

- 1: 15-letter horizontal word at the top left.
- 2: 2-letter horizontal word at the top right.
- 3: 10-letter vertical word on the far right.
- 4: 10-letter horizontal word in the upper middle.
- 5: 10-letter vertical word on the far left.
- 6: 10-letter vertical word on the left side.
- 7: 10-letter horizontal word in the middle.
- 8: 2-letter vertical word in the center.
- 9: 10-letter horizontal word in the center.
- 10: 2-letter vertical word in the center.
- 11: 15-letter horizontal word in the lower middle.
- 12: 10-letter horizontal word in the lower right.
- 13: 10-letter horizontal word in the lower middle.
- 14: 2-letter vertical word in the lower left.
- 15: 2-letter vertical word in the lower right.
- 16: 15-letter horizontal word in the bottom middle.
- 17: 10-letter horizontal word at the bottom.

Across

1. the study of conversions between thermal energy and other forms of energy
4. the transfer of thermal energy with no overall transfer of matter
7. a temperature of 0 kelvin; the temperature at which the motion of the particles theoretically stops
9. the amount of heat needed to raise the temperature of one gram of a material by one degree Celsius
11. a decrease in the volume of a material due to a temperature decrease
12. the transfer of energy by waves moving through space
13. a material that allows thermal energy or electricity to flow through easily
16. an increase in the volume of a material due to a temperature increase
17. a material that allows thermal energy or electricity to flow through poorly

Down

2. occurs when a fluid circulates in a loop as it alternately heats up and cools down
3. the transfer of thermal energy when particles of a fluid move from one place to another
5. a measure of how hot or cold an object is compared to a reference point; a measure of the average kinetic energy of an object
6. an instrument used to measure changes in thermal energy
8. The _____ law of thermodynamics states that thermal energy can flow from colder to hotter objects only if work is done
10. the transfer of thermal energy from one object to another because of a temperature difference
14. The _____ law of thermodynamics states that absolute zero cannot be reached
15. The _____ law of thermodynamics states that energy is conserved