

- _____ 9. A substance generally expands when its _____ increases.
- a. specific heat b. melting point
c. conduction d. thermal energy
- _____ 10. Absolute zero is
- a. 273 K. b. 0 K.
c. 373 K. d. -273 K.

Fill in the blank to complete each statement.

11. _____ is the total energy of all of the particles in a substance.
12. The movement when heated fluid rises and is replaced by a cooler fluid is called a(n) _____ current.
13. The temperature at which a solid changes to a liquid is its _____.
14. A strip of two different metals joined together and often used in thermostats is called a(n) _____.
15. A(n) _____ is a device that transfers thermal energy from a cool region to a warm region.

Choose whether or not the statement is true or false. If you choose False, write the term that would make the statement true in the blank.

- _____ 16. On the Celsius scale, the number 0 is assigned to the temperatures at which water condenses.
- _____ 17. Heat is a transfer of thermal energy from a warmer object to a cooler object.
- _____ 18. A conductor such as a rug feels warm compared to a tile floor because it slows the transfer of heat from your skin.
- _____ 19. The state of a substance depends on the amount of thermal energy it possesses.
- _____ 20. Heat engines convert the thermal energy from combustion to mechanical energy.