

Name _____ Date _____

Vocabulary

Write the word from the box next to the description it matches.

conduction	convection	radiation
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- _____ the transfer of heat as matter moves
- _____ energy that is sent out in waves
- _____ the transfer of heat that occurs when one thing touches another

Explain

Tell if each statement is true or false. Explain your choice.

4. When convection occurs, a solid moves from place to place.

This statement is _____ because _____

5. If I pour hot coffee into a cold mug, what will happen to the coffee's temperature? Why?

The coffee's temperature will _____ because _____

Complete

- Heat always moves from the _____ object to the _____ object.
- If I heat a cup of water, the particles will move _____.
- Three types of fossil fuels that can be burned to produce heat are _____, _____, and _____.
- There are 5 different sources or ways to produce heat. The 5 sources are:

10. Identify how thermal energy is transferred in the following examples:
(convection, conduction, or radiation)

_____ I left my tablet sitting in the sun and it overheated.

_____ When I touched my tablet, it burned my hand.

_____ The water in my bottle became warm when I left it outside.