

## Thermal Energy Study Guide

- A good conductor \_\_\_\_\_ transfers heat quickly
- What metal is one of the best conductor of heat? copper
- Air is a poor conductor of heat.  
Explanation: Metals are all good conductors of heat. Air is a good insulator.
- The process by which fast-moving molecules transfer their energy directly to slower-moving molecules is called \_\_\_\_\_, conduction
- Heat energy will travel through a metal pan on the stove by \_\_\_\_\_. conduction
- Heat is conducted when \_\_\_\_\_.  
molecules transfer their warmer energy to cooler molecules which are moving slower.
- You jump into a swimming pool on a day when the air temperature is 100°F and the water is 80°F. Which statement correctly describes the flow of heat?  
Heat flows from the warmer object (your body - 98°F) to the cooler object (the water).
- Heat always \_\_\_\_\_.  
moves from faster molecules (warmer) to slower molecules (cooler)
- Materials that do not conduct heat well are called \_\_\_\_\_, insulators
- A winter coat is an example of \_\_\_\_\_. an insulator  
Winter coats are filled with air pockets. Air is a good insulator.
- Would you need a material that is a good conductor or insulator for cooking food fast?  
conductors

Stepping from a carpet onto a tile floor, your bare feet suddenly feel cold because \_\_\_\_\_.  
the tile is a better conductor than the carpet  
The tile is a better conductor than the carpet, so it conducts heat quickly from your feet.

- When hot and cold water mixed together reach the same temperature, the water has reached \_\_\_\_\_. thermal equilibrium
- When a glass of water reaches thermal equilibrium it means that \_\_\_\_\_.  
the heat is the same temperature throughout the water
- Which statement is true about a convection current in water?  
Cold water sinks and warm water rises.  
In a convection cell, cold water, which is denser than warm water, sinks and pushes the warm water upward.
- Heat transfer by movement in a fluid or gas is called \_\_\_\_\_. convection
- Wind is an example of \_\_\_\_\_. convection

# Study Guide Thermal Energy Answer Key

**James R. Gaines**

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