
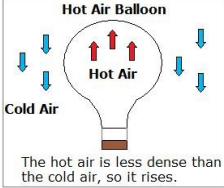

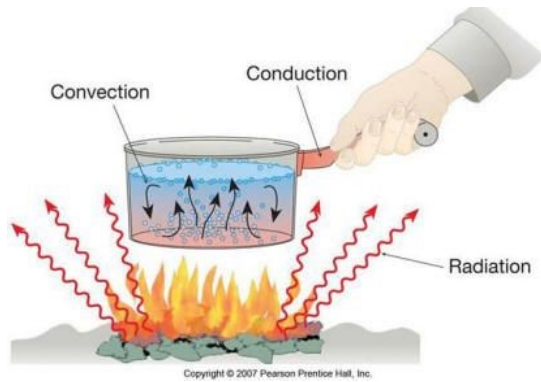


Heat transfer:

Type of heat transfer	heat is transferred:	Example:
Conduction	from one particle of matter to another without the movement of matter.	<p>Conduction Energy is transferred by direct contact.</p> 
Convection	by the movement of currents within a fluid.	<p>Hot Air Balloon</p>  <p>The hot air is less dense than the cold air, so it rises.</p>
Radiation	by electromagnetic waves.	



<p>Radiation: </p>  <p><i>"Hey Duke, doesn't that fire feel good."</i></p>	<p>Conduction: </p>  <p><i>"Ouch! That poker's too hot to hold with my bare hands."</i></p>	<p>Convection: </p>  <p><i>"I'll turn on the fan. All the warmest air is up near the ceiling."</i></p>
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Conduction, Convection, or radiation?

1. Opening the windows in a hot room
2. A lizard basking in the sun
3. Putting ice on a sprained ankle

Heat moves one way.

If two objects have different temperatures, heat will flow from the warmer object to the colder one.

A conductor transfers thermal energy well.
An insulator does not transfer thermal energy well.

heat transfer