

## Conduction, convection, and Radiation

Last Name: <input style="width: 90%;" type="text"/>	First Name: <input style="width: 90%;" type="text"/>	Period: <input style="width: 90%;" type="text"/>	Date: <input style="width: 90%;" type="text"/>
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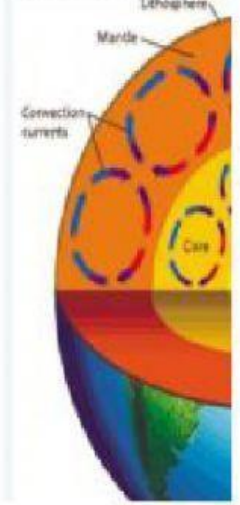
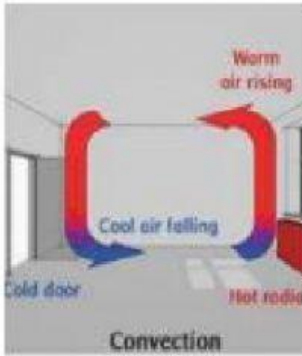

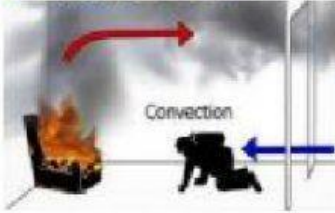
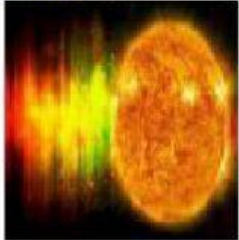

### Review

	Transfer of heat by	Example
Conduction	Contact	• Touching a hot rod
Convection	Moving of air/liquid Hotter rises Less hot(colder) sinks	<ul style="list-style-type: none"> <li>❖ Boiling water</li> <li>❖ Wind</li> <li>❖ Magma inside the earth</li> </ul>
Radiation	Transfer by waves No contact	<ul style="list-style-type: none"> <li>➤ Sun</li> <li>➤ Radiator</li> <li>➤ microwave</li> </ul>

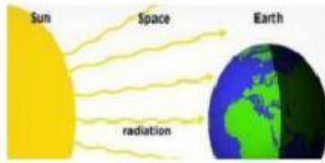
## Questions 1

**Instructions:** Label the picture as Conduction, Convection or Radiation

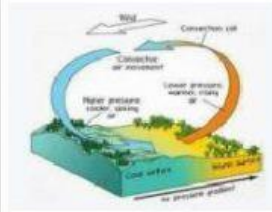
<p style="color: #800080;">Heat from camp fire</p>  <div style="border: 1px solid black; height: 30px; width: 100%; margin-top: 10px;"></div>	<p style="color: #800080;">Heat from your hand melts the ice</p>  <div style="border: 1px solid black; height: 30px; width: 100%; margin-top: 10px;"></div>	<p style="color: #800080;">Hotter air rises</p>  <div style="border: 1px solid black; height: 30px; width: 100%; margin-top: 10px;"></div>
<p style="color: #800080;">You touch a remote control</p>  <div style="border: 1px solid black; height: 30px; width: 100%; margin-top: 10px;"></div>	<p style="color: #800080;">Food gets cooked on the hot pavement</p>  <div style="border: 1px solid black; height: 30px; width: 100%; margin-top: 10px;"></div>	<p style="color: #800080;">Boiling H<sub>2</sub>O</p>  <div style="border: 1px solid black; height: 30px; width: 100%; margin-top: 10px;"></div>

<p><b>Warm food in a microwave</b></p>  <div data-bbox="317 524 632 575"></div>	<p><b>The hot air from the hairdryer rises and as it cool down sinks</b></p>  <div data-bbox="700 524 1015 575"></div>	<p><b>Pan on a stove</b></p>  <div data-bbox="1067 524 1382 575"></div>
<p><b>Hot magma rises and less hotter sinks</b></p>  <div data-bbox="325 1308 639 1359"></div>	<p><b>Heat rises – cold sinks</b></p>  <div data-bbox="692 1173 1007 1225"></div>	<p><b>Hotter Magma rises and less hotter sinks</b></p>  <div data-bbox="1067 1079 1382 1131"></div>
<p><b>Circulation of air</b></p>  <div data-bbox="317 1733 632 1785"></div>	<p><b>The sun</b></p>  <div data-bbox="692 1756 1007 1807"></div>	<p><b>Electromagnetic radiation</b></p>  <div data-bbox="1067 1756 1382 1807"></div>

### The sun heat

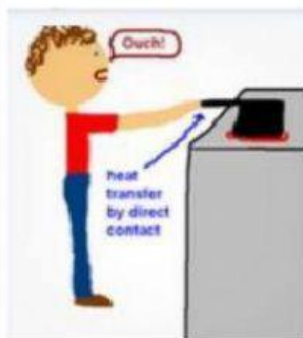



### The air movement is by Con....




### The wind moves because...






### Spoon get hotter by contact



Conduction of Heat

### Touching a hot handle



Conductive Heat Transfer