

Name:

Date:

Class:

## Heat Transfer Comparison Worksheet **Answer Key**

**Instructions:** Watch this video, *Different modes of Heat Transfer | Conduction, Convection, Radiation*  
<https://www.youtube.com/watch?v=FTSBtx5jhaY> and fill in the blanks in the worksheet below.

Heat Transfer Type	Happens in (states of matter)	Motion of particles/ transfer of heat	Specific information	Examples from the solar dryer picture
<b>Conduction</b>	Solid only	Heat transfer by vibrating particles and by bumping on each other.	There must be actual contact for heat transfer.	Skillet being heated by a hot plate stove
<b>Convection</b>	Liquids and Gas	Heat transfer by moving particles.	The particles carry the heat as they move	Air conditioning
<b>Radiation</b>	Does not need matter to transfer heat. Can happen in a vacuum.	Electromagnetic waves transferring heat	Electromagnetic waves carry heat	Clothes being dried under the sun