**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.

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| **Heat Transfer Type** | **Happens in**  **(states of matter)** | **Motion of particles/**  **transfer of heat** | **Specific information** | **Examples from the solar dryer picture** |
| **Conduction** | 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 |
| **Convection** | Liquids and Gas | Heat transfer by moving particles. | The particles carry the heat as they move | Air conditioning |
| **Radiation** | 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 |