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of heat transfer is concerned with only two things: temperature, and the flow of heat. Temperature represents the amount of thermal energy available, whereas heat flow represents the movement of thermal energy from place to place.

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same body at different temperatures. This heat can be transferred in three ways: by conduction, convection or radiation.

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*Page 31/43*

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Principles of Heat Transfer Heat is transferred to and from objects -- such as you and your home -- via three processes: conduction, radiation, and convection.

Conduction is heat traveling through a solid material. On hot days, heat is conducted into your

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home through the roof, walls, and  
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physical systems. Heat transfer is classified into various mechanisms, such as thermal conduction, thermal convection, thermal radiation, and transfer of energy by phase changes.

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