

**Thermodynamics**

Thermodynamics is the study of heat and work.

Heat always flows from hot to cold. Heat does not flow all ways.



Temperature always flows from hot to cold. Matter does not flow all ways.



Temperature never flows from cold to hot. Heat does, but only one way.



Thermal energy does not disappear. It can be lost by: Conduction, Convection, Radiation.

**Conduction**

Conduction transfers heat through object touching.



All objects are vibrating. Temperature is the average kinetic energy. Heat flows from higher temperature to lower temperature.



Conduction is slowest. It takes a long time to heat a pot of water. Conduction is best for solids.

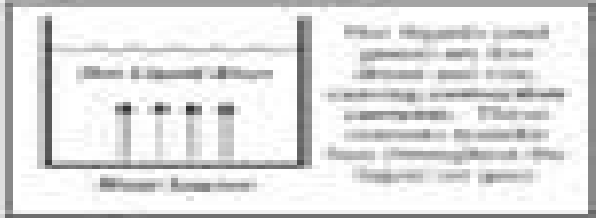


Heat transfer continues until both objects are at thermal equilibrium (the same temperature).

**Convection**

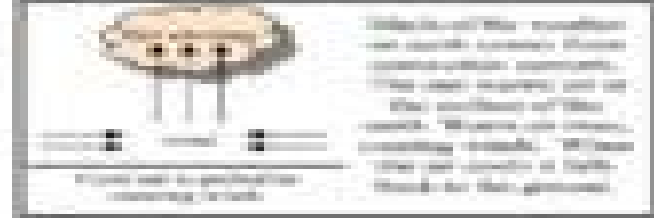
Convection transfers heat through moving currents in gases or liquids.

Convection is fastest.



Hot objects rise. Cold objects sink. Convection is best for liquids and gases.

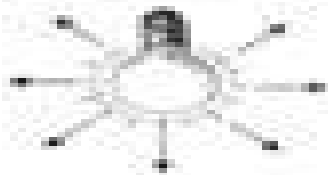
Convection is best for liquids and gases. Conduction is best for solids.



Convection is best for liquids and gases. Conduction is best for solids.

**Radiation**

Radiation transfers heat through electromagnetic waves. Radiation is fastest.



Radiation is fastest. It can travel through a vacuum.



Brick is a poor conductor of heat. It is a good insulator.

Dark colors absorb heat. Light colors reflect heat.

Radiation transfers heat through electromagnetic waves.

Radiation can go through a vacuum.



Dark colors absorb heat.



Light colors reflect heat.

# Thermodynamics Stephen Murray

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**Thermodynamics Stephen Murray:**

## **Thermodynamics Stephen Murray** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Thermodynamics Stephen Murray**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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