

THERMAL ENERGY READINGS & QUESTIONS

Types of Heat Transfer

Temperature differences are not as we realize for the air conditions convection, and radiation.

Convection is heat transfer by the movement of the fluid. As air is heated, it expands and the air particles move faster. This is because they are taking up more space and the air rises and the cooler air sinks. This makes the air circulate. Convection also occurs in liquids. Convection also occurs in solids as you can see in the diagram. Cooler water

Radiation is heat transfer by the form of electromagnetic waves. All objects emit thermal energy in the form of electromagnetic waves, causing the temperature to rise.

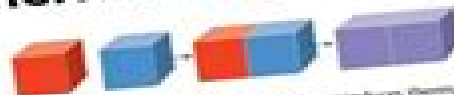
Particle Arrangement

To understand how heat is transferred, we need to know how the particles are arranged. On Earth, all matter is made up of particles. These particles are constantly vibrating. The more energy they have, the faster they vibrate. This is why the particles in a solid are packed closely together, while the particles in a liquid are more spread out, and the particles in a gas are very far apart.



Figure 1.1: Particle Arrangement

Thermal Equilibrium



Particles are always vibrating and this vibrating motion produces thermal energy. All matter is constantly vibrating, so all matter has some amount of thermal energy. Heat transfer is how thermal energy moves from one place to another. Luckily for us, it is easy to predict how heat moves. Thermal energy will always travel from warmer objects to cooler objects until the energy is equally distributed. When you have two objects that are at different temperatures, thermal energy moves from the warmer object to the cooler object until they are both at the same temperature. This is called thermal equilibrium. Once thermal equilibrium is established, the temperature of the system remains constant until you can think of a way to change it.

Thermal Equilibrium Questions

Name: _____

Read the text Thermal Equilibrium and then answer the questions below.

Types of Heat Transfer Questions

Name: _____

Read the text Types of Heat Transfer and then answer the questions below.

Name: _____

Read the text Particle Arrangement and then answer the questions below.

1. How do particles in a solid move?

2. How do particles in a liquid move?

3. How do particles in a gas move?

4. How do particles in a plasma move?

5. How do particles in a solid move?

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