

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 becomes less dense. This is because the air molecules are taking up more space. This makes the air rise and the cooler air sinks. 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. The sun

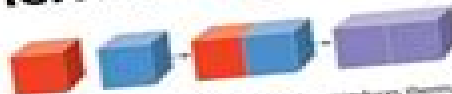
Particle Arrangement

To understand how heat moves, we need to know how particles are arranged. On Earth, all matter is made up of particles. These particles are constantly vibrating. The amount of vibration depends on the temperature. The higher the temperature, the more the particles vibrate. This is why solids have a fixed shape, liquids have a fixed volume but no fixed shape, and gases have no fixed shape or volume.



Figure 1.1: Solid

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 both objects will remain the same. You can think of thermal equilibrium as reaching a balance.

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?

6. How do particles in a liquid move?

7. How do particles in a gas move?

8. How do particles in a plasma move?

9. How do particles in a solid move?

10. How do particles in a liquid move?

11. How do particles in a gas move?

12. How do particles in a plasma move?

13. How do particles in a solid move?

14. How do particles in a liquid move?

15. How do particles in a gas move?

16. How do particles in a plasma move?

17. How do particles in a solid move?

18. How do particles in a liquid move?

19. How do particles in a gas move?

20. How do particles in a plasma move?

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