

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 apart, they make it rise. This is because they are taking up more space. As air rises and the cooler air sinks, a hot air balloon is a hot air balloon. Convection also occurs in the ocean. Convection also occurs in the ground. Cooler water

Radiation is heat transfer by the form of electromagnetic energy. It travels in waves, causing the sun to heat the earth.

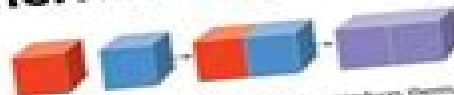
Particle Arrangement

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 always moving. The way they move depends on the temperature. In a solid, particles are packed closely together and vibrate in place. In a liquid, particles are more spread out and can move around. In a gas, particles are very spread out and move quickly in all directions.



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. Lucky 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, no more heat transfer occurs. You can think of it as reaching thermal equilibrium.

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?

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18. How do particles in a liquid move?

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Table of contents Section I Theoretical considerations Section II Information on the operation of evaporators Section III Applications to various industries Section IV Types of evaporators **A Sensory Approach to STEAM Teaching and Learning** Kerry P. Holmes, Jerilou J. Moore, Stacy V. Holmes, 2023-04-27 Did you know you have the power and the materials at your fingertips to facilitate the actual brain growth of students This book is a practical resource to engage K 6 students with STEAM content through their five senses seeing listening touch movement smell and taste It combines historical research practical suggestions and current practices on the stages of cognitive development and the brain s physical response to emotion and novelty to help you learn ways to transform ordinary lesson plans into novel and exciting opportunities for students to learn through instruction exploration inquiry and discovery In addition to providing examples of sensory rich unit plans the authors take you through the step by step process on how to plan a thematic unit and break it down into daily seamless lesson plans that integrate science technology engineering arts and mathematics With 25 themed STEAM unit plans and activities based on national standards up to date research on brain science and real classroom experience this book shows multiple ways to develop and deliver active multisensory activities and wow your students with sights and sounds as soon as they come through the door of your classroom *Climate Change* Bruce E.

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