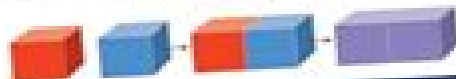


Thermal Energy Articles & Worksheets

Thermal Equilibrium



Types of Heat Transfer

Temperature differences exist in objects that are all around us - from the ice cream cone we eat to the walls down the hot concrete sidewalks to the hot summer air as we wait for the air-conditioned bus to arrive. Heat can move in three different ways: radiation, convection, and conduction.

Conduction
As an object is heated, the particles in it vibrate more vigorously. The heat energy is then passed on to the next particle in the chain. This is how heat is transferred through solids. When heat is conducted, it is said to be conducted.

Radiation
The heat energy is transferred from the hot object to the cold object by the emission of electromagnetic waves. This is how heat is transferred through the vacuum of space.

Particle Arrangement

To understand how thermal energy moves, we must first consider that all matter is made up of particles. Everything we know is made of tiny particles, from the rocks on our feet, to the air that we breathe, to our favorite gaming console.

On Earth, all matter exists in three main phases, or forms - solids, liquids, and gases. Phase is determined by the particle arrangement of a substance.



Figure 1: Solid

The particles that make up **solids** are packed together very tight. The particles are held together too strongly to allow movement from place to place but the particles do vibrate in their spot. If you put a solid into a container, it will not take the shape of its container because the particles are not free enough to move around. When heat is added, the particles of a solid will vibrate faster and spread apart a bit. Solids have definite volume and definite shape.

The particles that make up **liquids** are not as tightly packed as solids. There is a bit more space between each particle and they move with random motion throughout a container. The particles can move in all directions and collide with each other. When heat is added the particles move faster and spread further apart. Liquids have a definite volume but no definite shape.

Thermal Equilibrium Questions

Name: _____

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

1. Explain how thermal energy always travels in a predictable manner.
2. Look back at Figure 1.
3. Explain what the arrows represent.

Types of Heat Transfer Questions

Name: _____

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

1. List the three ways in which heat can be transferred.
2. How is heat transferred from the Sun to the Earth?

What type of heat transfer occurs when hot air rises and is replaced by cooler air?

Particle Arrangement Questions

Name: _____

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

1. Why do solids, liquids, and gases have different properties?
2. In what form do the particles move around fairly freely?
3. In which state are the particles only able to vibrate in a single position?
4. A school notebook is sitting motionless on a desk. Would it look motionless if you could zoom into the tiny particle level? Explain your answer.

What effect would removing heat have on particle motion?

Describe how the motion of particles within a substance changes when it is heated.

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**John Krenos, Joseph Potenza, Loretta
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