

Build Your Vocabulary

Vocabulary Review

Use the word bank to complete each statement.

1. A material through which heat or electricity flows easily is a good _____.
2. The passing of heat between two objects that are touching is _____.
3. A material through which heat or electricity does not easily flow is a good _____.
4. The flow of heat in currents through a liquid or gas is _____.
5. The transfer of energy through space is _____.
6. A tool used to measure temperature is a _____.

conduction

conductor

convection

insulator

radiation

thermometer



Word Study: Word Forms

Some nouns can be made into verbs by changing the letters in the word.

Change the nouns into verbs by adding, removing, or changing letters. The first one is done for you.

Noun	Verb
1. conduction	conduct
2. insulator	
3. radiation	
4. conductor	

Check Your Understanding

Show What You Know

Main Ideas: Write the answer to each question.

1. What happens when thermal energy is transferred?
2. What are the three ways in which thermal energy can be transferred?
3. What is temperature, and how is it measured?

Critical Thinking

1. **Analyze** Explain the difference between heat and temperature.
2. **Synthesize** Describe an appliance in the kitchen that heats food. Which form of thermal energy transfer is used?



Words in Science

Academic vocabulary The word *transfer* begins with the prefix *trans-*. What does *transfer* mean?

- ◆ Look up the prefix *trans-* in your dictionary. What does the prefix mean?
- ◆ What are some other words with the prefix *trans-*? What do they mean?

Process Skill

Quick Activity

Use variables You predict that a metal pan with a plastic handle will keep your hand cooler than the same metal pan with a metal handle. You heat both pans to see if you are right. What is the variable you are testing in your experiment? What other things do you need to keep the same in the experiment?