

Use with textbook pages 426–431.

Thermal energy, kinetic energy, potential energy

1. What is thermal energy?

2. What is kinetic energy?

3. What is potential energy?

4. What happens to the thermal energy of an object as its temperature rises?

5. What happens to molecules as their kinetic energy increase?

6. What happens to molecules as their potential energy increases?

7. What is heat?

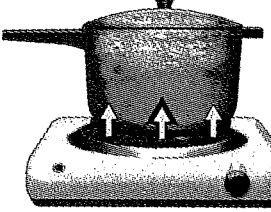
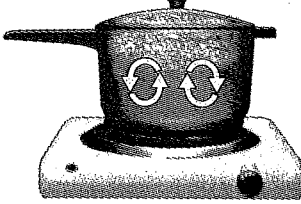
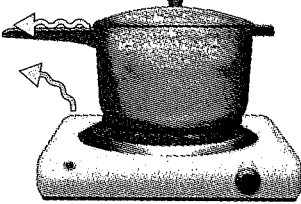
8. Give an example that illustrates the above definition of heat.

9. State three ways in which thermal energy is transferred.

Use with textbook pages 427–431.

Thermal energy transfer

1. Using the illustrations, complete the following table.

	Type of thermal energy transfer	What is happening in the diagram
		
		
		

2. What materials are good thermal conductors?

3. Give three examples of materials that are considered to be insulators.

4. Explain what causes the movement of the liquid in a lava lamp.

5. What is radiant energy?
