

Section 10.1

Temperature, Thermal Energy, and Heat

Before You Read



1. Words to Know

Directions: Match the correct definition to the term on the left.
Scan pages 424 – 431 to find the definitions.

Words to Know	Definition
___ conduction	A. a measure of the average kinetic energy of all the particles in a sample of matter
___ convection	B. the transfer of thermal energy from an area or object of high thermal energy to an area or object of low thermal energy
___ electromagnetic radiation	C. all matter is composed of particles (atoms and molecules)
___ heat	D. the transfer of thermal energy from one substance to another or within a solid by direct contact of particles.
___ kinetic energy	E. the transfer of energy by waves travelling outward in all directions from a source
___ kinetic molecular theory	F. the total energy of all the particles in a solid, liquid, or gas
___ temperature	G. the transfer of thermal energy within a fluid and with the movement of fluid from one place to another
___ thermal energy	H. the energy of a particle or an object due to its motion

2. Predicting the Main Ideas of Section 10.1

Directions: Scan pages 424 – 431 looking at the pictures and titles within this section. Predict four things you think you will learn in this section.

1. _____

2. _____

3. _____

4. _____

