**Chapter 1, Section 2**

1. How does the density of air affect air pressure?
2. Why do your ears pop when flying in an airplane or driving up a mountain?
3. What changes in air pressure would you expect if you carried a barometer down a mine shaft?

**Chapter 2, Section 1**

1. On a sunny day, why doesn’t a lawn get as hot as a parking lot?
2. Which color of light has the longest wavelengths? Which color of light carries the most heat?
3. How is the inside of a car on a sunny day like the greenhouse effect Earth experiences?

**Chapter 2, Section 3**

1. Toward what direction does a north wind blow?
2. What happens to the density of air when it is heated and how does this affect air pressure?
3. How do global winds differ from local winds?
4. How is wind related to air temperature and air pressure?

**Chapter 2, Section 2**

1. What are the freezing and boiling points of water on the Fahrenheit scale?
2. Which temperature scale do scientists use?
3. When the heat from the ground heats the air, which form of heat transfer is taking place?
4. What is the major way that heat is transferred through the *troposphere*?