

**CHAPTER REVIEW****Chapter 15****The Air Around You****I. Vocabulary Review**

*In the blank, write the word or words that best complete the sentence.*

1. About 75 percent of all the gases in Earth's atmosphere are in the layer known as the \_\_\_\_\_.
2. The layer of gases hundreds of kilometers thick that surrounds Earth is the \_\_\_\_\_.
3. The part of the atmosphere that acts as a filter by keeping many of the sun's harmful rays from Earth is the \_\_\_\_\_ layer.
4. A type of air pollution that is visible as a smokelike haze is \_\_\_\_\_.
5. Wind patterns found between 30° and 60° latitude are called \_\_\_\_\_.
6. Heat is transferred from Earth's surface to the atmosphere by \_\_\_\_\_.
7. The unequal heating of places all over Earth results in large \_\_\_\_\_ systems.
8. The uppermost part of Earth's atmosphere is the \_\_\_\_\_.
9. The winds caused by the air cooling, sinking, and returning to the equator are the \_\_\_\_\_.
10. Earth's gravity pulling on air mass causes \_\_\_\_\_.

**II. Concept Review**

*In the blank at the left, write the letter of the choice that best completes the statement or answers the question.*

- \_\_\_\_\_ 11. The prevailing westerlies result primarily from \_\_\_\_\_.
  - a. the effect of Earth's rotation on air movement
  - b. the interaction of land and sea breezes
  - c. air sinking and returning to the equator
  - d. air rising and returning to the polar regions
- \_\_\_\_\_ 12. A helium balloon released on the beach at midday would likely travel up and \_\_\_\_\_.
  - a. toward land
  - b. out to sea
  - c. back and forth equally
  - d. impossible to predict
- \_\_\_\_\_ 13. If the temperature on a mountaintop was the same as the temperature at a beach, where would you be most likely to find the greatest air pressure?
  - a. at the beach
  - b. at the mountaintop
  - c. Both pressures are the same.
  - d. impossible to predict

### Chapter Review 15 (continued)

- \_\_\_\_\_ **14.** Mars is a cold planet in part because \_\_\_\_\_.
- a.** its atmosphere traps radiant energy
  - b.** it faces away from the sun
  - c.** its atmosphere is very thin
  - d.** its atmosphere is very thick

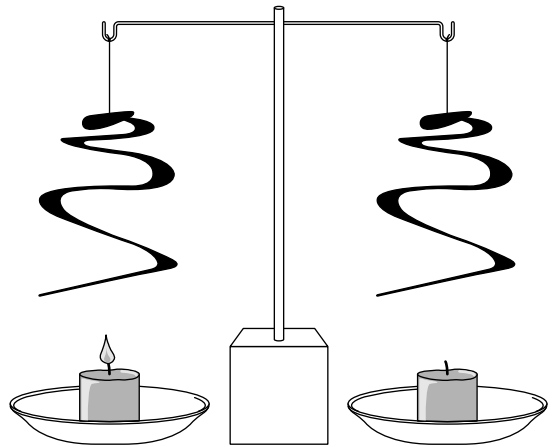
*Answer the following questions in phrases or complete sentences.*

- 15.** If a weather map shows an area marked “L,” what weather pattern might you expect? \_\_\_\_\_
- \_\_\_\_\_
- 16.** Does the mass of a ball change when you inflate it? Why or why not? \_\_\_\_\_
- \_\_\_\_\_
- 17.** Explain how you can could tell if pollution is present in the air. \_\_\_\_\_
- \_\_\_\_\_
- 18.** In what way is Earth’s atmosphere like a glass roof? \_\_\_\_\_
- \_\_\_\_\_

### III. Skills/Process Review

*Use Figure 1 to answer the following.*

- 19.** Predict which mobile will begin to spin first.
- \_\_\_\_\_
- 20.** What would you expect to see if both candles are lit? \_\_\_\_\_
- 21.** What process is illustrated by the experiment shown? \_\_\_\_\_



**FIGURE 1**

### IV. EYV Review

- 22. Science and Society: The Disappearing Ozone Layer** How can you help in reducing the global problem of CFCs in the atmosphere? \_\_\_\_\_
- \_\_\_\_\_