CHAPTER <

12

STUDY GUIDE FOR CONTENT MASTERY

SECTION 12.3 Gathering Weather Data

In your textbook, read about weather instruments.

For each item in Column A, write the letter of the matching item in Column B.

| | Column A | | Column B |
|----------------------|--|------|-------------|
| | 1. An instrument that measures the height of cloud layers and estimates cloud cover | | thermometer |
| | 2. An instrument that measures wind speed and direction | b. | barometer |
| | 3. An instrument that measures temperature | c. | anemometer |
| | 1. An instrument that measures air pressure | d. | hygrometer |
| ! | 5. A balloon-borne package of sensors that gathers upper-level weather data | e. | ceilometer |
| | 6. An instrument that measures relative humidity | f. | radiosonde |
| Answer the fo | ok, read about radar and weather satellites. Ilowing questions. The Doppler effect? How do meteorologists use it to predict weather? | | |
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| | neteorologists combine data from weather radar and weather satellite ormation about the atmosphere? | s to | |
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| 9. What is in | frared imagery? How is it used? | | |
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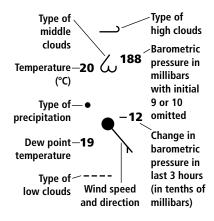
CHAPTER

STUDY GUIDE FOR CONTENT MASTERY

Weather Analysis **SECTION 12.4**

In your textbook, read about station models.

Study the station model. Then answer the questions that follow.



- **1.** What is a station model?
- **2.** What are the advantages of using station models?
- **3.** List three types of information shown on a station model.
- **4.** For the station shown, what is the temperature?
- **5.** For the station shown, how has the barometric pressure changed in the last 3 hours?