## **Section 18.1 Water in the Atmosphere**

This section describes how water changes from one state to another. It also explains humidity and relative humidity.

## **Reading Strategy**

In the table below, list what you know about water in the atmosphere and what you would like to learn. After you read, list what you have learned. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

What I Know	What I Would Like to Learn	What I Have Learned
a.	b.	C.
d.	e.	f.

 Circle the letter of the most important gas in atmospheric processes.

a. oxygen

b. nitrogen

c. water vapor

d. carbon dioxide

## **Water's Changes of State**

**2.** Select the appropriate letter in the figure that identifies each of the following changes of state.

\_\_\_\_ sublimation

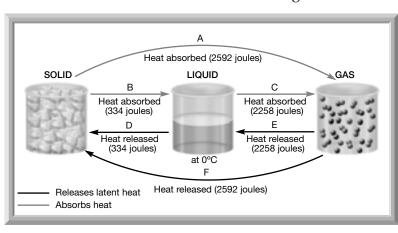
\_\_ freezing

\_\_\_\_ deposition

\_\_\_\_ evaporation

\_\_\_\_ condensation

\_\_\_\_ melting



napter 18 Moisture, Clouds, and Precip	pitation
a. condensation:  b. freezing:  c. deposition:	•
. The heat absorbed or released during	a change of state is called
umidity	
. S Is the following sentence true or factorial contains more water vapor than saturated the sentence of the s	
• What is the difference between hu	midity and relative humidity?
atch each cituation to its change in relative	humiditu
atch each situation to its change in relative  Situation	humidity. Change in Relative Humidity
Ç	Change in Relative
Situation	Change in Relative Humidity a. increases
Situation  7. Water vapor is added.	Change in Relative Humidity a. increases
Situation  7. Water vapor is added.  8. Air temperature decreases.	Change in Relative Humidity  a. increases b. no change
Situation 7. Water vapor is added. 8. Air temperature decreases. 9. Water vapor is removed.	Change in Relative Humidity  a. increases b. no change c. decreases
Situation  7. Water vapor is added.  8. Air temperature decreases.  9. Water vapor is removed.  10. Air temperature increases.  When a parcel of air is cooled to the temperature.	Change in Relative Humidity  a. increases b. no change c. decreases  emperature at which it is
Situation  7. Water vapor is added.  8. Air temperature decreases.  9. Water vapor is removed.  10. Air temperature increases.  When a parcel of air is cooled to the test saturated, it has reached its	Change in Relative Humidity  a. increases b. no change c. decreases  emperature at which it is
Situation  7. Water vapor is added.  8. Air temperature decreases.  9. Water vapor is removed.  10. Air temperature increases.  When a parcel of air is cooled to the test saturated, it has reached its  Circle the letter of the factor that a hygeneric stream.	Change in Relative Humidity  a. increases b. no change c. decreases  emperature at which it is
Situation  7. Water vapor is added.  8. Air temperature decreases.  9. Water vapor is removed.  10. Air temperature increases.  When a parcel of air is cooled to the test saturated, it has reached its  Circle the letter of the factor that a hyga. humidity	Change in Relative Humidity  a. increases b. no change c. decreases  emperature at which it is
Situation  7. Water vapor is added.  8. Air temperature decreases.  9. Water vapor is removed.  10. Air temperature increases.  When a parcel of air is cooled to the test saturated, it has reached its  Circle the letter of the factor that a hyga. humidity  b. relative humidity	Change in Relative Humidity  a. increases b. no change c. decreases  emperature at which it is
Situation  7. Water vapor is added.  8. Air temperature decreases.  9. Water vapor is removed.  10. Air temperature increases.  When a parcel of air is cooled to the test saturated, it has reached its  Circle the letter of the factor that a hyga. humidity  b. relative humidity  c. temperature	Change in Relative Humidity  a. increases b. no change c. decreases  emperature at which it is  grometer is used to measure.