

Atmospheric Moisture, Pressure, and Wind

14

Name _____ Course/Section _____

Date _____ Due Date _____

1. Label the diagram in FIGURE 14.17 with the appropriate terms for the changes of state shown.

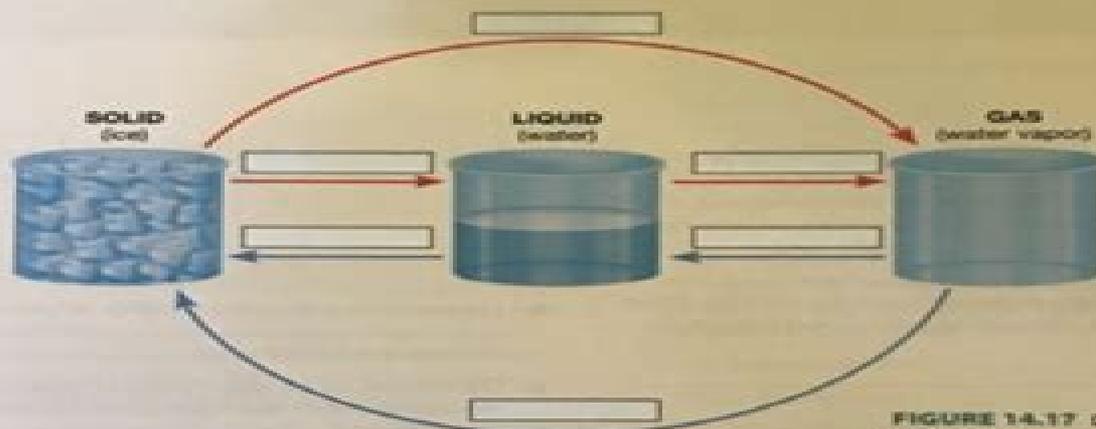


FIGURE 14.17 Diagram to accompany Question 1.

2. Complete the following.

- By what process does liquid water change to water vapor?

 - Does warm or cold air have the highest saturation mixing ratio?

 - Does lowering the air temperature increase or decrease relative humidity?

 - What is the relative humidity of air that has reached its dew-point temperature?

 - When condensation occurs, does water vapor absorb or release heat?

 - Does rising air warm or cool, and does it do so by expansion or compression?
_____ by _____
- In the early morning hours, when the daily air temperature is often coolest, is relative humidity generally at its lowest or highest?

 - Explain how a sling psychrometer works for determining relative humidity.

 - Describe the adiabatic process and explain how it is responsible for causing clouds to form.

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