

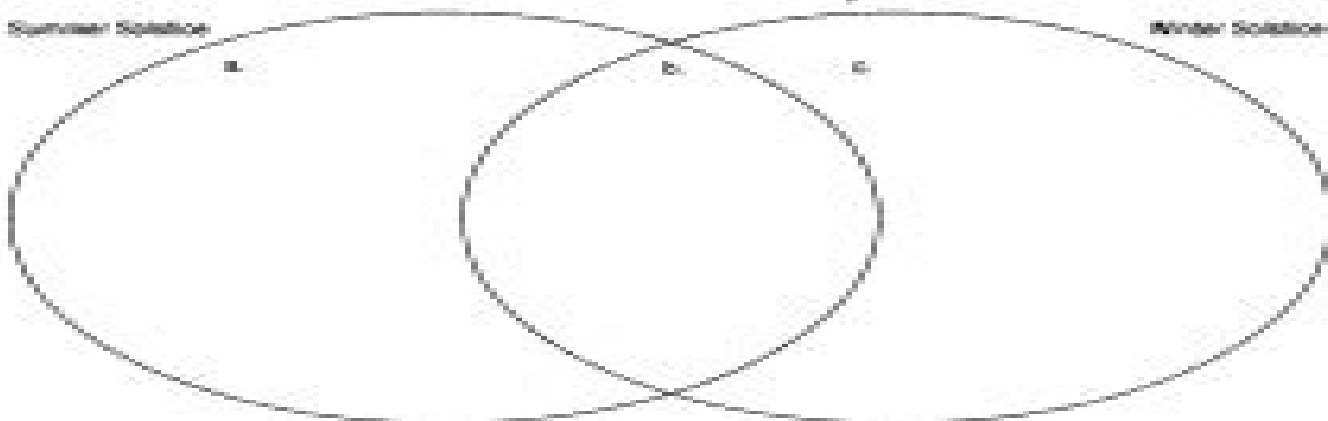
## Chapter 17 The Atmosphere: Structure and Temperature

**Section 17.1 Atmosphere Characteristics**

This section describes the components and vertical structure of the atmosphere. It also explains how the relationship between Earth and the sun causes the seasons.

**Reading Strategy**

**Comparing and Contrasting** As you read, complete the Venn diagram by comparing and contrasting summer and winter solstices. 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.



1. ☞ \_\_\_\_\_ is the state of the atmosphere at any given time and place.

**Composition of the Atmosphere**

2. Circle the letter of the gas that is the largest component of the atmosphere.

a. oxygen                      b. nitrogen  
c. water vapor              d. carbon dioxide

3. ☞ Is the following sentence true or false? The source of all clouds and precipitation is water vapor. \_\_\_\_\_

4. ☞ Why is the ozone layer crucial to life on Earth? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Height and Structure of the Atmosphere**

5. Is the following sentence true or false? Atmospheric pressure increases with height. \_\_\_\_\_

# Seciton 17 Atmosphere Characteristics Answer Key

**Wolfgang Guggemos**



## **Seciton 17 Atmosphere Characteristics Answer Key:**

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web nov 6 2023  $x_a = \frac{\text{mol } a}{\text{mol } a + \text{mol } b}$  and  $x_b = \frac{\text{mol } b}{\text{mol } a + \text{mol } b}$  note in the given mixture the sum of all the mole fractions present is equal to one  $x_a + x_b = 1$  when the mole fractions are multiplied by 100 they give the mole percentage mole fraction is a unitless and dimensionless expression image will be uploaded soon

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web notice that the mole fraction has no units on it and is written as a decimal value do not change it to percent note of caution you could see the term mole percent it is simply the mole fraction multiplied by 100 for example in the problem just below the mole fraction of cinnamic acid is 0 2885 its mole percent would be 28 85

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