

Unit 2 Atmosphere Study Guide

1. Define the following terms:
 - a. **troposphere**
 - b. **stratosphere**
 - c. **mesosphere**
 - d. **thermosphere**
 - e. **air mass**
 - f. **ozone**
 - g. **altitude**
 - h. **high pressure**
 - i. **low pressure**
 - j. **weather**
 - k. **climate**
 - l. **humidity**
 - m. **precipitation**
 - n. **cyclones**
 - o. **air density**
 - p. **hurricanes**
 - q. **cold front**
 - r. **warm front**
 - s. **stationary front**
 - t. **occluded front**
 - u. **dry line**
 - v. **isobar**
 - w. **isotherm**
 - x. **CFC's**
 - y. **acid precipitation**
 - z. **sulfur dioxides**
 - aa. **nitrogen dioxides**
 - bb. **pH scale**

2. Summarize the structure and composition of our atmosphere. (Name and describe each layer)

3. Explain how the types of air mass interactions create different weather conditions (thunderstorms, hurricanes, tornadoes, etc.) and types/duration of precipitation.

4. What is air density and how does it wind, air masses, fronts, and storm systems?

5. What are cyclonic storms? (Hint..name 2)

6. How are cyclonic storms formed?
 - a. **Tornado:**
 - b. **Hurricane:** (NOT A TORNADO ON THE WATER!!!)

7. Know how to predict/forecast weather using the symbols on a weather map. Symbols:
 - a. **“H”:**
 - b. **“L”:**
 - c. **red semicircle line:**
 - d. **blue triangle line:**
 - e. **alternating red/blue line:**
 - f. **purple line:**
 - g. **broken yellow line:**

8. Explain how El Nino and La Nina impact weather conditions.

9. How does water vapor influence weather?

10. What are the components of acid rain?

11. How do human activities impact air quality?

12. What can humans do to reduce the pollutants in the atmosphere?