Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Winter Break 2014 Unit 8 Meteorology Preview

**Directions: Use your EES Textbook PAGES 477-480 to answer the following questions.**

**THEN graph altitude and temperature.**

*Return from break on Monday January 5th 2015 with this assignment complete.*

**Reading Comprehension:**

1. List the composition of the atmosphere starting with the most to least abundant.

2. Why is water vapor in the atmosphere so important?

3. How do ozone molecules form in the stratosphere?

4. What does the ozone filter that is important to life on Earth?

5. Name the top three primary pollutants and where they come from.

6. How much Earth’s atmosphere is located below about 5.6 kilometers?

7. What are the four layers of the atmosphere, in order starting at the ground going into space?

8. The atmosphere is divided into \_\_\_\_\_\_\_ layers based upon \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

9. In which layers of the atmosphere does temperature increase with increasing height?

10. In which layers of the atmosphere does temperature decrease with increasing height?

11. Look at Figure 4 on page 479, how do changes in air pressure at low altitudes compare with air pressure changes at high altitudes?

12. Explain what would happen to air temperatures in the troposphere if carbon dioxide were removed from the air.