**Cornell Notes Chapter 6 Section 1-Characteristics of the Atmosphere**

**Read pages 150-155 and complete these questions on page 75 of your science notebook.**

1. What is atmosphere?
2. What is the most abundant gas in the atmosphere?
3. Diagram the composition of gases(figure 1 on page 150) into your notebook
4. What is the percentage of oxygen in the atmosphere?
5. Describe the three physical states of water in the atmosphere.
6. Atmosphere is held in place around the Earth’s surface by gravity. This creates air pressure.

What is air pressure, exactly?

1. What is the relationship between altitude and air pressure?
2. What is the main cause of temperature differences at different altitudes?
3. Earth’s atmospheric layers are based on what characteristic?
4. Name 3 characteristics of the troposphere.
5. Name 3 important features of the stratosphere.
6. Name 2 important features of the mesosphere.
7. Name 2 important features of the thermosphere.
8. If the thermosphere has the highest temperatures, why does it not feel hot?
9. Where is the ozone layer located?
10. What are ions?
11. Where is the ionosphere located?
12. What are auroras and where are they located?

**Using the information under “Summary” on page 155-write a 2-3 sentence summarization of the most important concepts in this section.**

**Cornell Notes Chapter 6 Section 2 Atmospheric Heating**

**Read pages 156-159 and complete the Cornell Notes below on page 77 of your notebook.**

1. What is radiation?
2. How much of the sun’s energy does the Earth receive?
3. Copy the diagram of Figure 1 (pages 156-157) into your notebook. Be sure to include the captioning of what happens to all of the solar energy entering the Earth’s atmosphere.
4. What is thermal conduction?
5. How is thermal energy always transferred?
6. What is convection?
7. How do differences in air density cause convection currents?
8. What is the greenhouse effect?
9. What is *radiation balance*?
10. Why is radiation balance important?
11. What is global warming?
12. What are *greenhouse gases*?
13. What is the hypothesized **cause** of global warming trends?
14. What is the **effect** scientists believe may result from continued warming trends, should they happen?

**Read through the summary of important information in this section on page 159. Then compose your won summary for this section in 2-3 sentences.**