**Cornell Notes- Chapter 7 Section 2 Notebook page \_\_\_\_\_\_\_\_\_\_\_**

**Title of page: Air Masses and Fronts**

Read pages 192-197 and answer the following questions in your notebook. When done, complete a 2-3 sentence summary for this section.

1. What causes changes in weather?
2. Define **air mass**.
3. What 2 features characterize an air mass and what is this region called?
4. What do the 2 letter abbreviations in an air mass represent?
5. Complete this chart in your notebook for the air masses that influence the weather of the United States. Use the diagram on page 192(figure 1) and the information on page 193 to help you. The first one is done for you:

|  |  |  |
| --- | --- | --- |
| **Type of air mass** | **Source region** | **Air mass characteristics** |
| mP | North Pacific | Wet, cold air |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. Define **front.**
2. Diagram figure 4 on pages 194-195 of your notebook into your text.
3. Complete the chart below in your notebook on the characteristics of fronts. The first one is done for you:

|  |  |  |
| --- | --- | --- |
| **Type of front** | **Air movement** | **Weather characteristics** |
| Cold front | Cold air moves under warm air and pushes it up | Move quickly, bring thunderstorms, heavy rain or snow |
|  |  |  |
|  |  |  |
|  |  |  |

1. What is **a cyclone** (use definition in margin)?
2. Explain what happens in the formation of a cyclone.
3. What type of weather is associated with it?
4. What is an **anticyclone**?
5. Explain what happens in the formation of a anticyclone.
6. What type of weather is associated with it?

**Finish this section with a 2-3 sentence summary of the material you have read.**

**Section 3-Severe Weather Notebook page\_\_\_\_\_\_\_\_**

Read pages 198-204, then complete the Cornell Note Questions in your notebook. When you are done summarize the information in 2-3 sentences.

1. Define **thunderstorm.**
2. Define **lightning.**
3. What is **thunder**?
4. What conditions may form during a severe thunderstorm?
5. What weather condition is the leading cause of weather related deaths?
6. What is a tornado?
7. Give the 4 steps of how a tornado forms using figure 4 on page 200 of the text.
8. What percentage of the world’s tornadoes occurs in the U.S.?
9. When and where are tornadoes likely to occur in the U.S.? Why?
10. What is a hurricane?
11. What are the other names given to a hurricane, and where do these form?
12. Why do hurricanes form between 5-20 degree latitudes in each hemisphere?
13. Explain how a hurricane forms
14. Diagram figure 8 on page 202 in the text into your notebook. Be sure to label the parts of the hurricane.
15. Which part of the hurricane is the most dangerous?
16. What causes most hurricane damage?
17. What is a **storm surge**?
18. Give basic safety measures for the following storms:

|  |  |
| --- | --- |
| **Storm:** | **Safety measures to take:** |
| thunderstorm |  |
| tornado |  |
| flood |  |
| hurricane |  |

**Complete this section by summarizing its contents in 2-3 sentences.**