

Weather Orientation:

Complete the following with organized, thorough, and meaningful responses. Use diagrams with captions. Tables, Venn diagrams, or other graphic organizer may also be appropriate.

1. Identify each layer of Earth's atmosphere and characteristics for each layer. Clearly identify which layer(s) weather occurs
2. What happens to all of the Sun's radiation as it encounters Earth?
3. Explain radiation, conduction, convection.
4. Explain the role of the Earth's atmosphere in regulating temperature.
5. How does the curve of the earth affect how the Sun's rays are received at different locations?
6. How does the spinning of the Earth affect global winds?
7. Describe the following (use diagrams):
Doldrums Westerlies Polar Easterlies Trade Winds Land Breeze Sea Breeze
8. Use Figure 2, page 455 to explain how temperature can affect air pressure and wind.
9. Use Figure 3, page 456 to explain the relationship between temperature and humidity.
10. Use Figure 8, page 460 to explain the conditions necessary for various types of precipitation.
11. Use Figure 9, page 462 to describe the six major air masses that affect the Northern Hemisphere.
12. What is the connection between atmospheric pressure and wind direction?
13. Identify and describe the four types of fronts.