Weather Study Guide

1. Define the following:
   1. Weather –
   2. Warm air mass –
   3. Cold air mass –
   4. Angle of sunlight –
   5. Wind –
   6. Evaporation –
2. What weather factor impacts all of weather?
3. Where do the sun’s rays hit the Earth at more of a direct angle? Indirect angle?
4. What happens as warm air rises?
5. In which layer of the atmosphere does all weather on Earth occur?
6. Why is the stratosphere important to Earth (two reasons)?
7. Why is the mesosphere important to us?
8. Explain the phenomena that occurs in the thermosphere (ionosphere)?
9. What are the three major factors that affect sunlight? Describe each.
10. Describe what happens to the movement of air in a high-pressure system. Include what type of weather is going to be associated with a high-pressure system.
11. Describe what happens to the movement of air in a low-pressure system. Include what type of weather is going to be associated with a low-pressure system.
12. What happens to air pressure as you move towards the center of a high-pressure system? Low-pressure system?
13. What is an air mass?
14. What are air masses classified by?
15. List the 5 types of air masses and each of their conditions.
16. What is a front?
17. What are the four types of weather fronts? Describe what happens at each.
18. Why do humans find weather prediction a benefit to mankind? (List at least three reasons.)