WEATHER & CLIMATE STUDY GUIDE

1. What is weather?
2. How does the sun effect the weather?
3. When the temperature is low, what happens to the air molecules? When it is high, what happens?
4. Draw a picture of the water molecules in a high pressure system.
5. Draw a picture of the water molecules in a low pressure system.
6. When air temperatures are lower, what happens to the water molecules?
7. If enough water is present in the air for condensation to take place, the air is saturated because it has reached its _____.
8. Define relative humidity. Give an example.
9. Draw a diagram of moisture movement to result in cloud formation.
10. Clouds are classified by …
11. Name the three types of clouds (fog is now a type).
12. Name the prefixes given to cloud types and what they mean.
13. Dark clouds that contain rain or snow are called?
14. The cloud that grows into a thunderstorm is called?
15. Give two reasons raindrop sizes vary.
16. Draw a diagram of how hail forms.
17. The National Weather Service collects information from two sources. What are they?
18. What is the difference between isotherm and isobar?
19. Air masses the form over land tend to be _____ than air masses that form over water.
20. What kind of weather would you expect if the meteorologist said a low pressure system was moving into the area?
21. Name the four types of fronts.
22. What is a tornado? What is a hurricane? How are they the same? How are they different?
23. How does latitude impact the type of climate?
24. How does a Lake Michigan impact climate in the Milwaukee region?
25. How do mountains impact climate? Give examples
26. How does the ocean impact climate? Give examples
27. How does a large city impact the climate? Give examples
28. Should we be concerned about climate change? Why? Explain in detail; give examples.