

# Weather Unit Review Sheet

1. List the layers of the atmosphere in order from bottom to top. Give a characteristic of each layer. Describe the change in temperature in each layer.
2. What is the ionosphere and what does it contain and what does it allow us to do?
3. How was our first atmosphere created? What gasses did it contain? How did it change to it's current status.
4. What does the atmosphere do for us (three things)?
5. What is the current composition of our atmosphere? (Give percentages)
6. What is ozone and how is it formed? What would happen if we did not have our ozone layer?
7. What is causing our ozone layer to become depleted? Where is the most depletion?
8. How does air pressure change with altitude?
9. Describe the how the greenhouse effect works.
10. What might happen if we if we have too much heat trapped due to the greenhouse effect?
11. What are the freezing and boiling points of Celsius, Kelvin and Fahrenheit?
12. Be able to define:
  - a. Barometric pressure
  - b. Dew Point
  - c. Saturation
  - d. Precipitation
  - e. Condensation
  - f. Runoff
  - g. Ground water
  - h. Humidity
  - i. Relative humidity
  - j. Temperature Inversion
  - k. Evaporation
  - l. Transpiration
  - m. Infiltration
13. How are clouds formed?
14. Name the three high level clouds and a characteristic of each. (be able to recognize on a picture)
15. Name the two mid-level clouds and a characteristic of each. (be able to recognize on a picture)
16. Name the four low level clouds and a characteristic of each. (be able to recognize on a picture)
17. Describe a cumulonimbus cloud, how it grows and the weather associated with it.
18. Know the types of precipitations that come from the clouds.
19. What is the difference between weather and climate?
20. What is meteorology and what are the things they study?
21. Describe the locations and characteristics of polar easterlies, westerlies, monsoon, jet stream and trade winds.
22. Describe the Coriolis Effect.
23. How is wind created – be specific.
24. Know the differences in the four fronts.
25. What are isobars and what do they indicate?
26. What are seasons caused by?
27. What are solstices and equinoxes? When are they?
28. How do mountains and flat plains influence weather?
29. What are three natural climate changes?
30. What are three conditions that must exist for thunderstorms to happen?
31. How does lightning occur? What is thunder?
32. What is the difference between a super cell, downburst, hailstorm, drought, heatwave and flash flood?
33. What is a tornado? How does a tornado form? When and where do they mostly occur? What should you do if you get caught in a tornado?
34. What are hurricanes? Where do they form? When do they occur? What are they also called? What is the wind speed it has to have in order to be classified as a hurricane?