*Be responsible by reviewing for tests. Be able to apply major concepts within the unit: Humidity; Clouds; Air Pressure; Winds; and Colliding Air Masses.*

Weather and Storms Test Review

**The following activities make-up possible test questions:** ● Bell Ringers ● Lab: Humidity ● Notes on humidity ● Lab: Dew Point and Relative Humidity ●Notes on clouds ●Lab: What is the Recipe for a Cloud? ● Can Crushing/pressure worksheet ●Notes on air pressure and winds ● Station Activities on Air Masses and Fronts ● Weather Data Collection (be able to apply figures and charts)

Guiding Questions:

1. What is the tool to measure relative humidity and why does the wet-bulb temperature decrease while using this tool?
2. Explain how the can was crushed in the lab we conducted, use a diagram in explanation.
3. What is the tool to measure air pressure (hint: found in Mr. Hollow’s classroom)?

1. If the specific humidity stays the same at 6 g of H2O/ kg of air, and the temperature increases, explain how this affects relative humidity?
2. List three ingredients needed to form a cloud?
3. Describe low pressure air mass behavior and weather.
4. Describe high pressure air mass behavior and weather.
5. How could you raise the relative humidity of the air in our classroom?
6. If the specific humidity is 17 g of H20/kg and capacity is 22 g of H20/kg, calculate the relative humidity.
7. Refer to chart, what is the relative humidity if the wet-bulb temperature is 10°C and dry-bulb is 14°C?
8. How did a cloud form in “Cloud in a Bottle lab?”
9. How is temperature affected when air rises and expands?
10. Why do you feel cooler when sweat evaporates from your skin during exercise?
11. What happens to water vapor when it reaches dew point?
12. How are car tires (or basketball) affected by surrounding low air pressure (hot sunny day)?
13. Diagram the Rain Shadow Effect.
14. List three ways that air rises to help form clouds?
15. How does the Coriolis Effect change global winds?

1. Describe how Monsoons form.

1. What are the conditions that cause tornadoes in tornado alley?

**Short Answer Options (know all four).**

● Describe the formation of clouds include dew point, temperature and humidity in answer.

● Explain how wind forms (hint: low pressure and high pressure should be in your answer).

● What is the symbol for a cold front, how does it form and what might people expect for weather?