**LIGHTNING – IN DEPTH**

All of the answers for the following questions can be found on <http://www.weatherwizkids.com/weather-lightning.htm>

1. Define the following terms:
   1. Severe thunderstorm watch
   2. Severe thunderstorm warning
   3. Protons
   4. Electrons
   5. Static electricity
   6. Leaders
   7. Return Stroke
   8. Streamers
2. Within a thundercloud way up in the sky, many small bits of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bump into each other as they move around in the air.
3. What happens when these particles collide with each other, or in other words, what is created?
4. What happens at the bottom of clouds?
5. Since opposites attract, that causes a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to build up on the ground beneath the cloud.
6. Why are taller objects more at risk in thunderstorms?
7. Where is lightning striking in North America right now (use the link that says ‘click here’). Put the time stamp (can be found in the top left corner) here:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. How hot is lightning? How hot is the Sun? How do the two compare?
9. What causes lightning? (Looking for a detailed answer)
10. What are ten different kinds of lightning? And what makes each one unique?
11. How can you tell how far away lightning is?