Name _____ Date _____ Period _____ 

# IT'S ALL AIR – SEVERE WEATHER

## Activity 1 – Static and Air

**Materials:** Saran Wrap, paper towel, straw, tissue paper, paper clip, aluminum foil, piece of Styrofoam, toothpick.

**Procedures:**

1. Lay the saran wrap flat on the table and use the paper towel to rub back and forth quickly across the saran wrap
2. Set the toothpick off to the side of the saran wrap, then lift the saran wrap up about 2 inches off the table and move it over the toothpick. Record your observations in the data table below.
3. Repeat steps 1 and 2 for all of the items. Make careful observations

| Item | Toothpick | Straw | Paper Clip | Piece of Paper | Rubber Band | Aluminum Foil | Tissue Paper |
|---|---|---|---|---|---|---|---|
| What did you hear? | | | | | | | |
| What did you see? | | | | | | | |

## Analysis Questions

4. Did you hear a popping sound with every object? Support your answer with evidence.

5. Why did some of the objects stick to the saran wrap?

6. Place the straw on the table, use your pencil and push the straw. What did the straw do?

7. Recharge the saran wrap with the paper towel and raise it 2 inches off the table and over the straw. Use your pencil to push the straw again. **What do you think is happening?**

## Activity 2 – Severe Weather Formation

Use pages 434 to 443 in the amazing red textbook of knowledge to complete the following information.

| Severe Weather Type | Basic Characteristics | How does it form? |
|---|---|---|
| Thunderstorm | | |
| Tornado | | |

| | | |
|---|---|---|
| Hurricane | | |

## Analysis Questions

8. What is the difference between a thunderstorm and a hurricane?
9. What is a tornado?
10. What is responsible for the most damage during a hurricane?
11. Which of the severe weather types can have lightning and thunder?
12. What is lightning?
13. How did part 1 of this activity make small amounts of lightning?

## Activity 3 – Ultimate Guide to Severe Weather

*Directions - Answer the following questions as you observe the video.*

1. What 3 things are needed to create weather
    a.
    b.
    c.
2. Explain how most hurricanes form.
3. What are the 3 weapons of a hurricane?
    a.
    b.
    c.
4. Why are thunderstorms more common in the summer months?
5. How is electricity produced in a cloud?
6. On average, how many people are killed by tornadoes in the United States a year?
7. Explain how tornadoes form.
8. How do monsoons form?
9. What is the most dangerous part of a monsoon?
10. How might global warming impact weather in the future?