Twister Research

1. Define the different types of air masses. Maritime, Continental, Polar, Tropical. Do they have moisture and what is their relative temp.

2. What happens when these air masses meet?

3. What are fronts, how are they formed?

4. Define the different kinds of fronts (warm, cold, stationary and occluded fronts)

5. Describe how a) Polar Fronts, b) mid-latitude cyclones and c) anticyclones form. What is the result of these weather patterns?

6. What is the Coriolis effect?

7. How do twisters form?

8. What is tornado alley?

9. What causes the majority of tornadoes to occur in “tornado alley”?

10. Look up the following weather Instruments, and state what they measure and hope to predict

a) Barometer

b) Anemometer

c) Wind Vane

d) Radiosonde

e) Radar (Doppler)

f) Weather Satellites

11. In the movie they claim they have 3 minutes to warn people about tornados. How long do we have to warn people today?

12. How do scientist predict weather? How has this prediction gotten better of the years?

13. How should you prepare for Thunderstorms, Tornados, Hurricanes, Blizzards? What safety measures should you take during the event?

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| Type of Weather | How to Prepare | Safety during the event |
| Thunderstorms |  |  |
| Tornado |  |  |
| Hurricane |  |  |
| Blizzard |  |  |

14. What is the largest tornado on record? What damage was done (cost, # killed)

15. What is the difference between a tornado and hurricane? A) structure b) wind speeds/rain fall c) how they form d) general location