

# Activity A. Tornado Tube

## Observations and Results

1. Describe what occurs when the Pet Tornado is shaken.
2. Once Activities A and B have been completed, compare and contrast the vortexes formed in each device.
3. Describe the principles of the Fujita Scale.
4. How does the Enhanced Fujita Scale (EF) differ from the Fujita Scale?

# Activity B. Pet Tornado and the Fujita Scale

## Observations and Results

1. Describe what occurs when the Pet Tornado is shaken.
2. Once Activities A and B have been completed, compare and contrast the vortexes formed in each device.
3. Describe the principles of the Fujita Scale.
4. How does the Enhanced Fujita Scale (EF) differ from the Fujita Scale?

# Activity C. Relative Humidity and Dew Point

## Observations and Results

Air temperature (°F)	
Dry-bulb temperature after spinning (°F)	
Wet-bulb temperature after spinning (°F)	
Difference between dry- and wet-bulb temperature values (°F)	
Relative humidity (%)	
Dew point (°F)	

1. Define the terms relative humidity and dew point.
2. Given your results, how do relative humidity and dew point compare?
3. Compare your relative humidity and dew point values with your local weather station or Internet weather site. How do your values compare to the actual or reported values?

# Activity D. A Cloud in the Hand

## Observations and Results

1. What does the smoke from the match represent?
2. What causes the cloud to form in the bottle?
3. What would happen if the smoke from the match was not present? Why?

# Activity E. PolySnow™

## Observations and Results

1. Explain why the artificial “snow” forms when the water is added to the PolySnow powder.
2. Compare and contrast PolySnow to real snow.
3. What happens when salt is added to the PolySnow? Give an example of how this process is commonly used.