



WEATHER WONDERS

Level: **Grades 6-8**

Length: **45 minutes**

PROGRAM DESCRIPTION

Weather is around us all the time, but how much do we really understand the processes behind the wind and rain and sun of daily life? Explore the wild world of weather through interactive demonstrations and discussion. Students will discover why weather changes, how clouds form and the innerworkings of extreme weather events—all without getting wet.

CURRICULUM CORRELATIONS

Students will:

1. Identify the difference between weather and climate.
2. Recognize the role of the sun and uneven heating in weather systems. **S6E3b; S6E4b,c; S8P2d**
3. Discover the water cycle, resulting cloud types and different forms of precipitation. **S6E3; S6E4e**
4. Recognize weather instruments and maps how to identify fronts and their associated weather. **S6E4c**
5. Explore large weather systems: thunderstorms and lightning, hurricanes and tornadoes. **S6E4d; S8P5b**

ESSENTIAL QUESTION

In what ways is Earth an *active* and *changing* system?

PROGRAM VOCABULARY

Climate	Cold Front	Convection	Cyclone
Static Electricity	Warm Front	Weather	

ASSOCIATED VOCABULARY

Air Pressure	Anemometer	Barometer	Clouds (alto, cirrus, etc.)
Condensation	Precipitation	Rain Gauge	Thermometer
Water Cycle	Wind Vane		

ADDITIONAL RESOURCES

Access to additional resources, including pre- and post-program activities will be available through Fernbank's virtual learning platform, Moodle.com. You will be provided registration access prior to your program date to establish your Moodle account.