

Weather Whys: Theater Programming

Topics covered: It's windy outside! Get the anemometer! Whether we like it or not, weather is part of our daily lives. Observe clouds and use weather measurement tools that help predict weather. Read a thermometer and rain gauge. Discover ways meteorologists track Earth's atmospheric phenomena. Investigate air pressure while a miniature tornado forms. Listen to weather alert radio and discuss safety procedures for dangerous Mid-South weather.

Ages: 6-8

Purchase Details: Theater Programming - \$5 per student

Programs can be reserved by phone: 901-636-2362
Wednesday - Saturday, 10:30 am - 5:30 pm

Objectives:

1. Distinguish between weather and climate.
2. Recognize elements of weather that meteorologists observe to describe and forecast weather.
3. Learn how to collect weather data using tools that measure atmospheric conditions.
4. Understand atmospheric conditions required to produce a tornado.
5. Know safety procedures related to severe weather.

Vocabulary:

weather	tornado
climate	temperature
meteorologist	thermometer
atmosphere	rain gauge
clouds	barometer
air pressure	anemometer
lightning	hygrometer

Fun Facts:

- The fastest winds on Earth, 318 mph, were recorded inside a tornado.
- -40 degrees Fahrenheit is equal to -40 degrees Celsius.
- We usually see lightning before thunder because light travels faster than sound.

Web Resources:

Federal Emergency Management Agency -- <https://www.fema.gov/media-library/assets/documents/34411#>

National Weather Service -- <https://www.weather.gov/meg/>

The University Corporation for Atmospheric Research -- <https://scied.ucar.edu/webweather>

Center for Innovation in Engineering and Science Education --

http://www.ciese.org/curriculum/weatherproj/teacher_lessons.html

Museum Resources:

- **For Your Classroom:** Check out the Weather Suitcase Exhibit to use at your school. It's packed with cloud charts, weather posters, thermometers, an anemometer and other weather tools. Borrow a Weather Instruments Passport. Record weather conditions at your school using thermometer, rain gauge, hygrometer, barometer and wind vane.
- **In the galleries:** Visit our Natural History Exhibits on the ground floor. In the Oxbow Gallery, see how flooding along the Mississippi River creates these lakes. Examine impressions of ancient raindrops in rock in the Walk Through Time Gallery.

Where: Pink Palace Discovery Theater (for 33-100 students)

When: August-May Tuesday-Friday at 9:30 & 11 am 45-60 Minutes

- **Standards:**
 - (Grade Level) 6-8
- **Tennessee: (Science)**
 - GRADE 6: 6.ESS2
 - GRADE 7:
 - GRADE 8:
- **Mississippi: (Science)**
 - GRADE 6:
 - GRADE 7: E.7.9
 - GRADE 8:
- **Arkansas: (Science and Health)**
 - GRADE 6: 6-ESS2-5, 6-ESS2-6 HW.11..6
 - GRADE 7:
 - GRADE 8:
- **Catholic Diocese: (Science)**
 - GRADE 6:
 - GRADE 7: 7.1.5, 7.1.6, 7.1.7, 7.1.9
 - GRADE 8: