



Fernbank Science Center

Title: The Whys of Weather

Level: 4th Grade

Location: Planetarium

Type: Single Visit

Length: 60 minutes

Limit: One grade level

Program Description

In this hands-on program students will investigate why Earth has seasons and will learn how to read a weather map. Students will watch clips on the seasons and weather and will watch the stars change through the night sky. Then they will learn how to read a weather map and will act out the different parts of weather map, such as fronts and pressure changes.

Standards

S4E2. Students will model the position and motion of the earth in the solar system and will explain the role of relative position and motion in determining sequence of the phases of the moon.

c. Demonstrate the revolution of the earth around the sun and the earth's tilt to explain the seasonal changes.

S4E4. Students will analyze weather charts/maps and collect weather data to predict weather events and infer patterns and seasonal changes.

b. Using a weather map, identify the fronts, temperature, and precipitation and use the information to interpret the weather conditions.

Vocabulary

Seasons

Constellations

High Pressure

Precipitation

Weather

Cold Front

Low Pressure

Stationary Front

Orbit

Warm Front

Temperature

Climate

Pre-Visit Activities

Prior to the visit track the daily weather conditions, such as temperature and precipitation. During the program we will look at weather maps from the previous week.

Post-Visit Activities

After the visit have students continue to track the weather, however this time have them look at daily weather maps and make predictions about tomorrow's weather.

Notes

If you schedule this program (The Whys of Weather #4405) for your students, please do not schedule the Outreach program called, "Extreme Weather (#4436)," as these two programs cover similar content.

KW & SF 8/1/16