

INV. 3 ACTIVITY—COMPARING WEATHER

Focus Question: How does the weather change in my area from day to day? How does my weather compare to weather in other parts of the world on the same day?

Materials:

- A source to get daily weather reports such as radio or TV reports, newspapers, or an online weather source such as Weather Underground.

Instructions:

1. Choose a source to get daily weather reports for your area, another location in the United States (not near you), and a third location in a part of the world you're interested in.
2. Create a separate chart in your science notebook to record the weather occurrences for each of your three locations. It could look something like this.

Location #1 – Berkeley, California						
Date	High Temperature	Low Temperature	Precipitation	Sky Cover	Humidity	Visibility

3. Record weather data for each of your three locations daily for 2–3 weeks.
4. Analyze your weather data. You can create graphs to look for patterns and relationships in daily and seasonal data.
5. Compare your data across your three locations.
6. What patterns do you notice?

INV. 3 ACTIVITY—WEATHER LORE

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Focus Question: What is weather lore and is there any truth to them?

“Lore” refers to traditions and knowledge on a subject that gets passed from person to person by word of mouth. In the case of “weather lore,” these sayings have been passed down over centuries that groups of people believe would predict the weather in the next day or two, in the next season, or over several years.

Instructions:

1. Research weather lore on the Internet. You can start with these sayings.
 - a. When smoke descends, good weather ends.
 - b. When the dew is on the grass, rain will never come to pass.
 - c. Clear Moon, frost soon.
 - d. A cloud with a round top and flat base carries rainfall on its face.
 - e. Red sky in the morning, sailor take warning; red sky at night, sailor’s delight.
2. Make a list of the sayings.
 - a. Where did the saying originate?
 - b. What do they mean?
 - c. Is there any truth to them?
3. Are there any weather lore sayings that your family often quotes? What are they? Are they accurate?

INV. 3 ACTIVITY—WEATHER MEDIA RESOURCES

Online Resources on FOSSweb (Must log in to FOSSweb with username and password.)

Use these online resources to help review content from Investigation 3 of Earth and Sun. The tutorials and virtual investigations provide interactive resources that review concepts from the FOSS active investigations. The virtual investigations often mimic the active investigations that were done in class.

For the articles in *FOSS Science Resources*, access the **interactive eBook** and make sure to click on the interactive links within the readings. Be sure to take notes on what you learn from all online resources and answer the questions from the articles in your science notebook.

Investigation 3 Resources:

Online Activities

- Tutorial—Air and Atmosphere
- Weather Grapher

Media Library

• eBook readings (Interactive eBook)

- What is Air?
- Earth's Atmosphere
- Weather Instruments

• Streaming Videos

- *Ball on a Scale*
- *Fizz Keeper Experiment*
- *Soda Can Experiment*
- *Earth's Atmosphere*
- *All about Meteorology*