

INV. 3 ACTIVITY—DAILY WEATHER TRACKING

Make weather observations and record.

Materials: Notebook

Suggested Procedure: Keep a weather journal.

Make three columns. One for the date, one for your direct observations of the weather and another for any data you collect on temperature from the radio, newspaper, TV, phone app or maybe you have an outside thermometer.

Go outside, look up at the sky, make observations, how does it feel out and record in your notebook.

Record the date , the weather in your notebook and find out the temperature.

Try to record around the same time every day.

Read "Studying Weather " in FOSS Science Resources: *Water and Climate eBook*

To access the interactive eBook, login to FOSSweb with the user name and password provided by your teacher. Click on the Water and Climate Module, and go to the Media Library. Click on the eBook.

In your notebook respond to the questions at the end of the reading.

Share what you learned with a friend or family member.

Engage with online activities

To access the Online Activities, login to FOSSweb with the user name and password provided by your teacher. Click on the Water and Climate Module, and go to the Online Activities.

Check out Tutorials: *Measuring Temperature*

Check out : *Reading a Thermometer*

View the Streaming Video, *All About Meteorology*

To access the streaming videos, login to FOSSweb, click on the Water and Climate Module, and go to the Media Library. Click on the Streaming Videos. View the video, *All about Meteorology*.

View Chapters 2 and 3.

Pick another chapter of your interested and record something new you learned.

INV. 3 ACTIVITY—EVAPORATION INVESTIGATION

Focus Question: What else affects how fast water evaporates?

Materials:

- Jars
- Water
- Cloth
- Bowl
- Plastic bag

Suggested Procedure:

A. Fill two identical jars or glasses with the exact same amount of water. With a sharpie or tape mark the water levels on the outside of the jar. Leave one of the jars uncovered, cover the other jar and make the lid as secure as possible.

Put the jars in a sunny spot either outside or inside. Draw a picture of the jars, labeling the current water levels. Return to the jar every day for the next week to observe and draw the where the water level is. Record date and levels in your notebook. Record in your notebook what is happening.

Repeat investigation except both jars will be uncovered. Place one jar in a sunny spot and one in a shady spot near each other. Make a prediction what will happen. Make observations over the week and record in your notebook.

B. Try wetting two identical pieces of cloth and wring the excess water out. Place one of the pieces of cloth in an airtight plastic bag. Place the other piece of cloth in an open bowl. Put both cloths near a window with plenty of sunlight. Make predictions regarding which item will dry up first. Leave the items by the window overnight. Describe what happened and why in your notebook.

Investigate with Salt Water

Mix about ¼ cup of salt into glass of water and mix well. Pour the salty water onto a sheet of black construction paper placed inside a baking tray. Place the tray outside in direct sunlight. Weigh the paper down on the corners with rocks or something heavy. Predict what will happen to the water and salt. In a few hours observe the tray. Record your observations and your thinking of what happened.

Read "Drying Up" in FOSS Science Resources: Water and Climate eBook

To access the interactive eBook, login to FOSSweb. Click on the Water and Climate Module, and go to the Media Library. Click on the eBook.

In your notebook add any more information that will help explain your investigation.

Check out Online Activity: *Evaporation Experiment*

INV. 3 ACTIVITY—CONDENSATION CHALLENGE

Can you figure out a way to cut down on amount of moisture that occurs on your bathroom mirror when someone takes a shower?

Record in your notebook your ideas and what you tried. How did it work?

Read "Condensation " in *FOSS Science Resources: Water and Climate eBook*

To access the interactive eBook, login to FOSSweb. Click on the Water and Climate Module, and go to the Media Library. Click on the eBook.

In your notebook add any more information to explain condensation in your bathroom.