

Lesson Plans

Lesson Title: Weather Station

Subject: Science **Grade:**

Vocabulary:

light energy, heat energy, temperature, thermometer, degrees, Fahrenheit, Celsius, precipitation, clouds, cirrus, stratus, cumulus, cumulonimbus

Materials: clipboards, handout for project, thermometers, rain gauge, pencils

Procedure: (lesson takes place outdoors)

1. Discuss weather and the tools that are used to measure different aspects of the weather
2. Demonstrate how to use a thermometer, rain gauge, and anemometer to collect data.
3. Explain to students the different cloud types associated with weather
4. Explain to students that they will be measuring the air temperature, rain, wind and observing clouds.
5. Prepare stations for measuring and observing different aspects of weather and show students where the four different stations are.
6. Divide students into 4 groups and tell them that their groups will be traveling from one station to another with their clipboards and handouts to record the data at each station.
7. When they are done measuring at all the stations, review the concept of weather and have students describe the current weather using their data.
8. Students share and compare weather reports.

Curriculum:

SC.5.E.7.3

SC.4.N.1.3

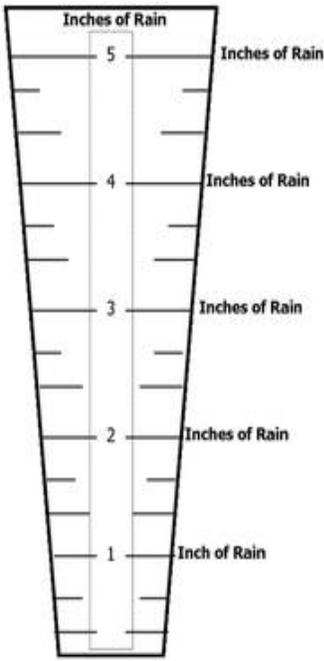
SC.3.N.1.1, 1.2, 1.3

SC.2.E.7.2, 7.4

SC.2.N.1.1

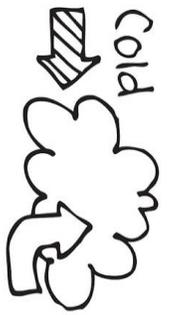
Weather Worksheet

Name: _____ Date: _____

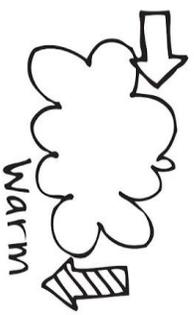
<p>Station 1 Humidity: _____</p> <p>Temperature: _____ °</p> 	<p>Station 2 Precipitation:</p> <p>Inches of rain? _____</p> <div style="text-align: center;">  </div>	<p>Station 3 Wind Speed: _____</p> <p>Wind Direction: _____</p>
		<p>Station 4 Cloud Observations:</p> <p>What cloud types do you see?</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Drawing:</p>

Current weather and weather prediction: _____

WEATHER FRONTS



Cold



Warm

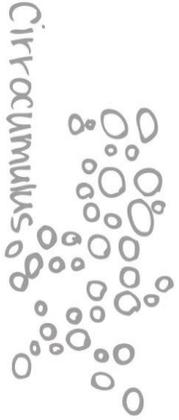


Stationary



Occluded

TYPES OF CLOUDS



Cirrocumulus



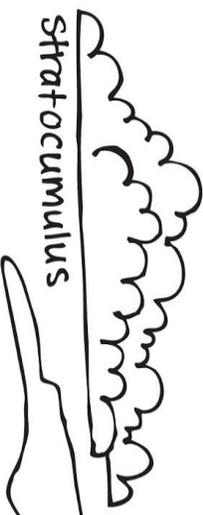
Cirrus



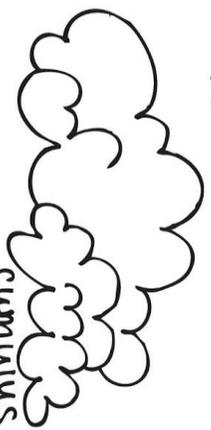
Altostratus



Altocumulus



Stratocumulus



Cumulus

Stratus



Cumulonimbus