

2nd Grade Weather and Climate Program

Objective: Students take readings of weather data, record data and compare to historical information to observe weather patterns. The role of climate

Grade level science competency objectives:

2.03 Describe weather using quantitative measures of:

- Temperature.
- Wind direction.
- Wind speed.
- Precipitation.

2.04 Identify and use common tools to measure weather:

- Wind vane and anemometer.
- Thermometer.
- Rain gauge.

2.06 Observe and record weather changes over time and relate to time of day and time of year.

Before your RENCI Rover visit

On-Site Activity (30 minute visit)

This program is designed to be outdoors at the ROVER, but can be conducted in the classroom if there are weather or other concerns.

1. Students will measure temperature, wind direction and wind speed using handheld instruments.
2. Educator will demonstrate ROVER on board weather station and recorded data.
3. Students will have a hands-on activity to demonstrate weather principles

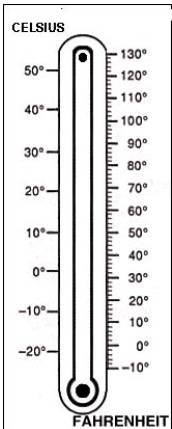
The planned time frame is 30 minutes, but can be extended for greater in-depth experiences or divided into subunits. Call 252-737-1773 or email covim@ecu.edu to talk to the educator about your specific needs.

Pre-lesson activity-

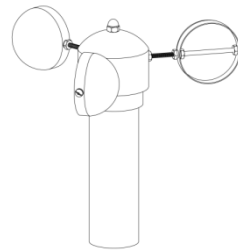
Vocabulary

Use the word bank to match the instrument with what it measures:

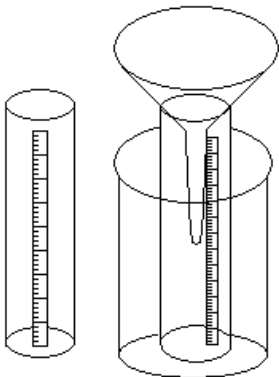
Word Bank:			
Precipitation	Wind Speed	Temperature	Wind Direction



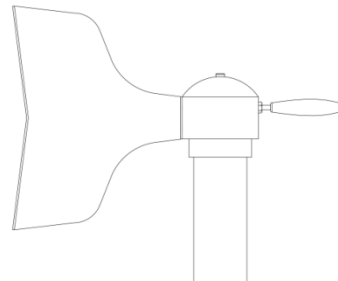
Thermometer measures _____.



Anemometer measures _____.



Rain gauge measures _____.



Wind vane measures _____.

Extension Activities

Observing Clouds

These are the three main types:

Common Cloud Types



Cirrus



Stratus



Cumulus

1. Students will keep a cloud journal. Each day they should observe the sky for clouds.
2. Student can draw the shapes of the clouds and can note color or thickness.
3. Students can name clouds using a cloud key.
4. Note what the weather is like and if the clouds help predict the weather.