# Weather Lesson

**Student Objectives:** The students will be able to identify weather patterns and make a graph using data.

**Academic Standards:**
3-ESS2-1 Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season
W.3.2 Write informative/explanatory texts to examine a topic and convey ideas and information clearly

**Vocabulary:**
Rain gauge: a device used for collecting the amount of rain that falls
Thermometer: a device used to measure temperature
Barometer: a device used to measure atmospheric pressure
Wind meter: a device used to measure wind speeds
Weather Vane: an instrument used for determining the direction of the wind
Cloud Chart: a chart with pictures of different kinds of clouds
Meteorologist: an expert in predicting weather
Weather: the state of the atmosphere at a specific place and time
Climate: the weather conditions in a place over a period of time

**Materials:**
Rain Gauge
Thermometer
Barometer
Wind Meter
Weather Vane
Cloud Chart
Worksheet
Paper
Writing instrument

**Method:**
1. Start by asking the students if they ever watch the weather channel at home. Explain to them that the meteorologist use tools and data to predict the weather for us. Review the tools that they use in order to predict this data and explain why they are important.
2. Tell the students that they will be using spending two weeks using these tools to record data using these instruments to check what their current weather conditions are.
3. Pass out the student worksheet.

4. Discuss as a class where the instruments are going to be located outside to be read.
5. Decide the times of day when the data will be recorded. This can vary between one to three times a day.
6. Designate a specific time for reading the data each time, you can have the class take a vote!
7. Make predictions as to what weather will be like the next day based off of the already recorded data.
8. Compare the class predictions to the local news channel predictions to check the accuracy.
9. Have the students research the weather tools themselves using computers/tablets in the classroom and have them write down some notes on what they learned.
10. Pull up the inspiration graphic as an example as to what their writing brainstorm could look like. Review the graphic with the students.
11. Tell the students that they will be compiling these notes into a report.
12. Allow the students to share their reports if they so choose.

**Assessment:**

Have the students, either has a class or individually written down, answer response questions such as:

- Which day(s) had the biggest change in weather?
- Which days had the highest amount of rain?
- Which days had the highest cloud cover?
- Which components helped you to predict the weather for the next day?
- Describe the weather components on a day you enjoy.

**Accommodations:**

For students with IEPs/504s, an outline of the lesson could be handed out ahead of time. For visually impaired students, you could allow them to look closer at the measurement tools to see for themselves.