

What's The Temperature?

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Discipline / Subject: Science/Weather

Topic: Comparing Weather

Grade Level: 3, 4, 5

Resources / References / Materials Teacher Needs:

Access to weather temperatures is all that is needed for this project. I have been using <http://www.weatherunderground.com>

Sample Data Collection Sheet attached

Lesson Summary:

Students will compare the weather in their hometown with that of Anchorage, Nome, or another town or city in Alaska. The final product is a graph comparing the 2 cities.

Standard's Addressed: (Local, State, or National)

Wisconsin Science Performance Standards

1. E.4.5 Describe the weather commonly found in Wisconsin in terms of clouds, temperature, humidity, and forms of precipitation, and the changes that occur over time, including seasonal changes
2. A.4.5 When studying a science-related problem, decide what changes over time are occurring or have occurred

Common Core Standards Math – Grade 3

Represent and interpret data.

3. Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step “how many more” and “how many less” problems using information presented in scaled bar graphs.

Learning Objectives:

Compare temperatures over time

Method of assessment for learning

Graded Data Collection Sheet
Graded Graph

Procedural Activities

1. Discuss the difference between climate and temperature.
2. Discuss “normal” temperatures for time of year both in your hometown and a city in Alaska.
3. Use a website to collect daily highs/lows/averages – however you decide.
4. Compare temperatures over time.
5. Set up graph with title, labels, numbers, etc.
6. Students answered questions such as the difference between the temperatures on a certain date and the difference between 2 days of the same city. This was done as an informal assessment, but teachers can make their own set of questions.

Materials Students Need:

Data collection sheet for temperatures.

Graph Paper

Technology Utilized to Enhance Learning:

Sample Weather Websites:

Weatherunderground.com

Weather.com

Weatherbug.com

We made our graphs by hand, but an Excel or Numbers program would be a great extension for this activity.

Other Information:

In March of 2012, my students compared Waupaca high daily temperatures with Anchorage high daily temperatures.

Beginning of the 2012-2013 school year, we have a graph in the classroom comparing Nome high & low daily temperatures with Waupaca high & low daily temperature.

Modifications for Special Learners/ Enrichment Opportunities:

Extra help with the data and graph if needed.

