



1st Grade Level

Requires ten to fifteen minutes per day. May be used during a unit on weather or daily.

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Lesson Planning Approach

Some learners perceive their "world" as a whole, where all things are interconnected and dependent upon each other. These "integrated" students face major challenges in coping with our dominant educational, social, and economic systems, which tend to present information in ways that do not match their experience. Among large populations of at risk students are many from Native American and similar cultures that do not regard their world as a sum of parts but as a blend of all that they experience.

This lesson plan does include some traditional, linear approaches to delivering information (checklist, rules, analysis, problem solving and organization). In addition to the traditional, linear delivery of information, this lesson plan also includes some of the following strategies, designed to appeal to at-risk students as they learn academic/life skills:

- ❖ Integration of technology
- ❖ Story telling/anecdotal information
- ❖ Non-competitive group and team work
- ❖ Performance-based assessment and rubrics
- ❖ Visual presentations and practice through technology and other means
- ❖ Project-based assignments that integrate family and community
- ❖ Activities appealing to multiple intelligences (Gardner)

Lesson Overview

This lesson is to introduce first grade students to the basic weather patterns. The Inter-net will be used to check the weather locally and at four additional sites in North and South America to allow students to make comparisons between various points on the globe with more northerly and southerly locations than their location in southern Colorado. Students will be become acquainted with basic weather icons. The forecasted highs and lows will also be recorded. Student groups will record their weather information in files on the computer using copy and paste procedures.

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Lesson Objectives

Project Objectives: When students complete this session, they will be able to...

- ❖ Produce a graph for weather for a one week period
- ❖ bring up a pre-set website
- ❖ record information on a pre-made graph using copy and paste procedures.

Integration of Other Functional/Academic Skills: Students will be able to...

Math: Count number of days of each type of weather.
Correctly read and record temperatures.

Reading: locate specific information on the weather page.

Writing: Work in groups to write sentences comparing their other sites weather with local weather.

Colorado Model Content Standards for Language Arts

Standard 1: Students will read and understand a variety of material.

Standard 2: Students will write and speak for a variety of purposes and audiences.

Standard 3: Students write and speak using conventional grammar, usage, sentence structure, punctuation, capitalization, and spelling.

Standard 4: Students apply thinking skills to their reading, writing, speaking, listening, and viewing.

Strategies to Address Native Americans and At-Risk

Address vocabulary used in actual experiments and pictures

Hands on representation through graphs

Stories about weather

Wait time

Use all learning mode including visual, auditory, tactile, and kinesthetic

Lesson Assignments

All assignments will be completed in the classroom in whole group or small group activities.

Required Teaching Resources for Lesson

- Graph with icons available to paste on
- Preset website to check the weather at predetermined locations.
- Picture books about different types of weather

Christine M. Powell: What Ever the Weather, 1st Grade Using Weather Forecasting Sites
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Required Media-Hardware/Software for Lesson

__ Classroom computer with Inter-net access.

Internet Website for Lesson

The following are the web sites through CNNweather.com that will be checked each day by the students to create their two- week weather graphs.

<http://www9.cnn.com/WEATHER/sw/CO/CortezCEZ.html> (This is the closest site for Dolores. Unfortunately, the distance of eight miles does make a difference in the weather.)

<http://www9.cnn.com/WEATHER/ca/Honduras/TegucigalpaMHTG.html>

<http://www9.cnn.com/WEATHER/sa/Peruacute/LimaLMAX.html>

<http://www9.cnn.com/WEATHER/sa/Chile/PudahuelSCPU.html>

<http://www9.cnn.com/WEATHER/cc/Saskatchewan/SaskatoonYXE.html>

Other Web Sites

<http://www.allfree-clipart.com/weather/>

weatherworks.com/

www.nssl.noaa.gov/edu/

Pre-requisites

Students must be able to read numbers and interpret symbols.

Required Equipment/Technology

- ❖ Computer with Inter-net access
- ❖ Printer
- ❖ Map of world

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Handouts

- ❖
- ❖ Copy of weather chart
- ❖ Copy of typical weather page

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The Lesson

Preparation

Activity	Instructor Notes
Ask if the students' parents ever listen to the radio, TV or check the Internet to find out about the weather. Why are we interested in the weather?	Have graph with site set up on the computer. Have a printed copy of the current day's weather if possible for each student or have a previous day's.
Bring up local weather site. Discuss the various portions. Allow students to exam their own copies. These pages are extremely busy for beginning readers.	

Practice

Activity	Instructor Notes
<p>Bring up a chart for the local area. Find the weather icon for today and the forecasted high and low. Allow a number of students each day to record the information. Students will be doing the following each day.</p> <ol style="list-style-type: none"> 1. Open the file on the desktop. 2. Hovering the cursor over the link until the hand appears and establishing the Inter-net link. 3. Find the needed information. 4. Close window or reduce for further reference. Return to recording sheet. 5. Copy weather icon for the day and paste under current day of the week. 6. Fill in forecasted temperatures. 7. Save file. 8. Terminate Inter-net link. 	<p>Forecasted highs and lows are being used they are easier to find on the weather links as these deal with predictions.</p> <p>Make sure there is supervision at the computer while students are learning to manipulate the recording sheets.</p>
<p>At the end of pre-determined period print out the recording sheet(s) and help the students make graphs of each of the three areas.</p>	<p>Decide if information from the recording sheet will be made into a graph on the computer or using more traditional methods or a combination of the two</p>

Practice Part II

Activity	Instructor Notes
<p>Show the class a world map. Mark the sites where daily weather will be recorded from the Inter-net sites. Divide class into groups. Help each group work their recording sheet just as they have been doing for the local area.</p> <ol style="list-style-type: none">1. Open the file on the desktop.2. Hovering the cursor over the link until the hand appears and establishing the Inter-net link.3. Find the needed information.4. Close window or reduce for further reference. Return to recording sheet.5. Copy weather icon for the day and paste under current day of the week.6. Fill in forecasted temperatures.7. Save file.8. Terminate Inter-net link.	<p>Have class divided into groups by method that best fits the needs of the classroom. Cross-ability grouping is not the only method.</p>

<p>Each day go to the Internet and bring up the site that gives information and pictures about the city. (See Appendix for sites)</p>	<p>Make sure these sites are currently running. Postcards that are offered by Chamber of Commerce or equivalent are excellent visual aides.</p>
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Performance

Activity	Instructor Notes
<p>Print recording sheets. Prepare graphs following the example completed with local weather.</p>	
<p>Plan how they will report their records to the class. Write a summary about the weather as a group. Write a reaction to the weather as an individual. Between the local weather and far away site, which would they chose? Why?</p>	<p>Must have a block of time to meet with each group to help with summary.</p>
<p>Have groups present their graphs with their summaries.</p>	

Lesson Assessment Strategy (Formative as the lesson progresses)

Preparation, Presentation and Overall Implementation (Instructor)

1. Are all the websites current before beginning?
2. Are the instructions and expectations clear?
3. Is there enough variety to appeal to most learning preferences?
4. Do the groups reflect the strengths and weakness of my students?
5. Are the objectives clear to the students?
6. Do the students understand what part technology plays in the lesson?

Performance and Practice (Student)

1. Do all students have the skills to follow the instructions?
2. Do all students contribute to the project in some measure?
3. Do all students have the necessary vocabulary to understand the terms used for talking about weather especially "forecast?"

Technology

1. Is the technology working? The Internet sites?
2. Are students able to follow the multiple steps involved in filling out the chart on the computer?
3. Are the students' interested in using the Internet to obtain other information?

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Activity Checklist

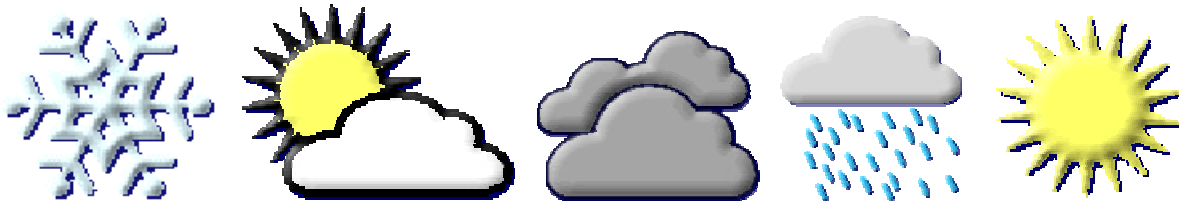
Anticipatory set Why are we interested in the weather?		
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Practice with site for local weather and recording method.		
Introduce other sites.		
Groups successfully record their findings using recording method.		
Groups prepare their graphs and summarize their findings.		
Group presentations.		
Students write individually about which weather they prefer.		

Daily Weather for Cortez, CO

<http://www9.cnn.com/WEATHER/sw/CO/CortezCEZ.html>

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday



Temperature - Forecast High

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

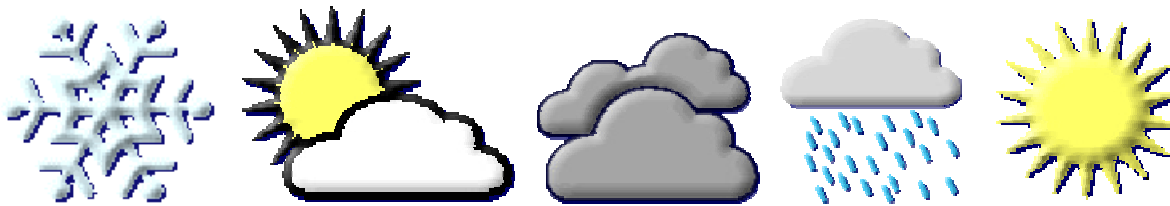
Temperature - Forecast Low

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Daily Weather for Pudahue, Chile

<http://www9.cnn.com/WEATHER/sa/Chile/PudahuelSCPU.html>

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday



Temperature - Forecast High

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

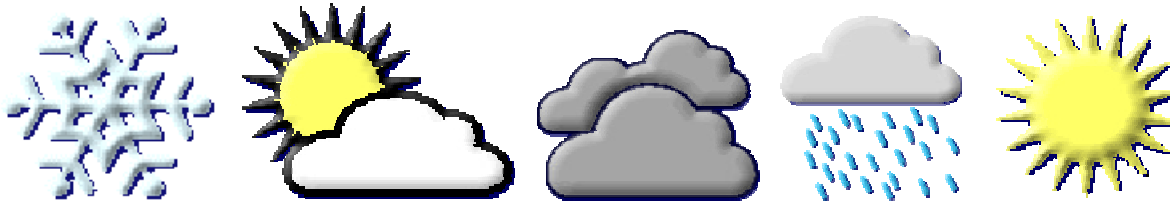
Temperature - Forecast Low

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Daily Weather for Saskatchewan, Canada

<http://www9.cnn.com/WEATHER/cc/Saskatchewan/SaskatoonYXE.html>

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday



Temperature - Forecast High

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

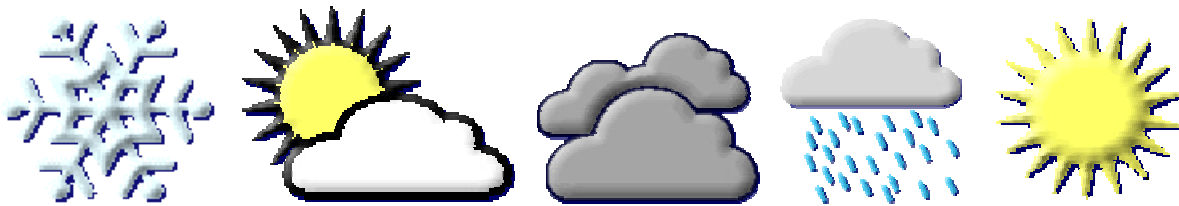
Temperature - Forecast Low

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Daily Weather for Tegucigalpa, Honduras

<http://www9.cnn.com/WEATHER/ca/Honduras/TegucigalpaMHTG.html>

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday



Temperature - Forecast High

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

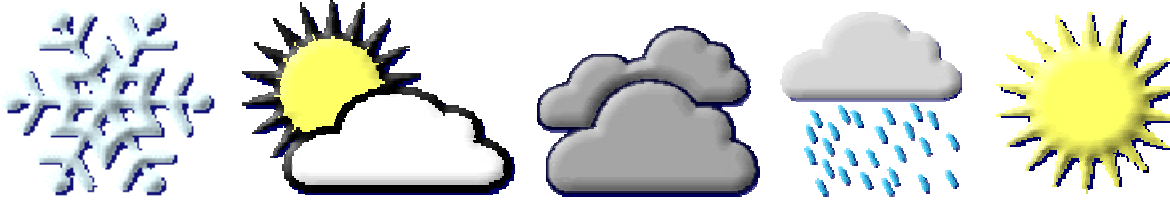
Temperature - Forecast Low

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

Daily Weather for Lima, Peru

<http://www9.cnn.com/WEATHER/sa/Peruacute/LimaLMAX.html>

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday



Temperature - Forecast High

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

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Temperature - Forecast Low

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday

