



SCOPE & SEQUENCE

GR. 5 – SCIENCE



Student Task

GRADE 5: Science

TOPIC D: Weather Watch

PRODUCTIVITY TOOL: Internet Research

TASK: Chart and Analyze Weather Indicators

TIMELINE: 10 minutes/day

LEVEL OF DIFFICULTY: ☺ Easy

Working in pairs, the students will keep track of the weather twice daily and report their findings to the class. There will be a large class chart which the two students will fill in as they report back with the information. Each student in the class will also have a mini-chart in their science notebooks on which they can record the data.

MANAGEMENT: The teacher will work with student #1 to find the websites listed below, then will record the pertinent information. Student #1 then becomes the “instructor” for teaching student #2 the procedure during the next recording time. Student #2 trains student #3, and so on.

TIMES FOR RECORDING: 9:00 A.M. and 12:45 P.M.

WEBSITES:

The students are to use recordings from the closest weather station.

Environment Canada – Alberta, Current Forecasts

Northern Alberta

<http://weather.ec.gc.ca/text/fpcn12.weg.htm>

Southern Alberta

<http://weather.ec.gc.ca/text/fpcn11.wyc.htm>

This site requires the student to do some reading in order to find the appropriate geographic area, as well as the chart information.

Wunderground.Com

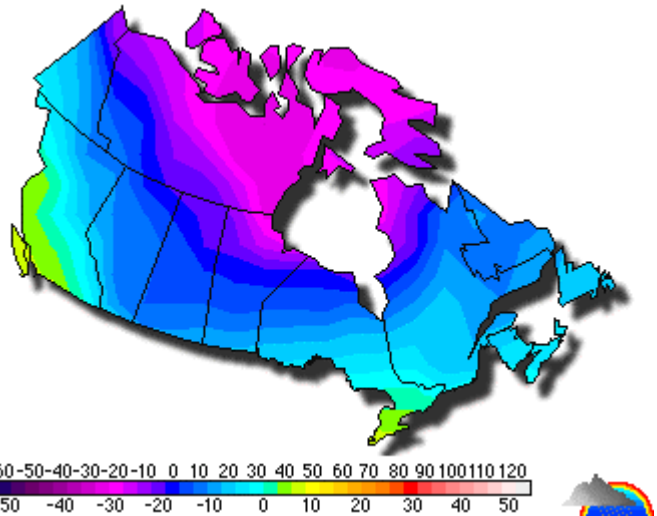
http://www.wunderground.com/global/CA_AB.html

This site is an easy “chart style” reference.

Students can compare the two sites and decide which of the numbers to use (averaging may be necessary if the information at the two sites differ).

DATA TO RECORD:

- Date
- A.M./P.M.
- Student Recorders
- Temperature in C°
- Wind Speed (km/h)
- Wind Direction
- Pressure (kpa)
- Humidity (in %)
- Cloud Description



“Weather Map” courtesy of Wunderground

FOLLOWUP ACTIVITIES:

Students will report back to class to lead the day’s discussion on the current weather conditions. They will begin to identify different types of clouds, as well as forms of precipitation. The class will discuss issues such as what clothing is appropriate for various weather conditions. They will also use their home-made wind vanes, anemometers, and thermometers to compare what they have found on the websites to their own findings.





ICT Outcomes

The learner will:

- C1** 2.1 access and retrieve appropriate information from the Internet by using a specific search path or from given uniform resource locations (URLs)
- 2.2 organize information gathered from the Internet or an electronic source by selecting and recording the data in logical files or categories; and by communicating effectively, through appropriate forms, such as speeches, reports and multimedia presentations, applying information technologies that serve particular audiences and purposes
- C2** 2.1 seek responses to inquiries from various authorities through electronic media
- C3** 2.1 identify and distinguish points of view expressed in electronic sources on a particular topic
- 2.2 recognize that information serves different purposes and that data from electronic sources may need to be verified to determine accuracy or relevance for the purpose used
- C4** 2.1 design and follow a plan, including a schedule to be used during an inquiry process, and make revisions to the plan as necessary
- C6** 2.1 select and use technology to assist in problem-solving
- 2.2 use data gathered from a variety of electronic sources to address identified problems
- 2.5 solve problems requiring the sorting, organizing, classifying and extending of data, using such tools as calculators, spreadsheets, databases or hypertext technology
- C7** 2.2 use data gathered from a variety of electronic sources to address identified problems
- F2** 2.4 assess the personal significance of having limitless access to information provided by communication networks, such as the Internet
- P5** 2.3 navigate the Internet with appropriate software



Curriculum Outcomes

GRADE 5: Science

TOPIC D: Weather Watch

TASK: Chart and Analyze Weather Indicators

General Learner Expectations

5-9 Investigate relationships between weather phenomena and human activity

Specific Learner Expectations

The student will:

3. Describe and demonstrate methods for measuring wind speed and for finding wind direction
7. Record weather over a period of time.
13. Appreciate how important it is to be able to forecast weather and to have suitable clothing or shelter to endure various types of weather.



