

# Learning Activity: Stephanie Jacobi, Donald Goenner

Title: Charting Weather Variations Throughout the United States

Curriculum: Science

Grade-Level Span: 2-4

Authors Names & School Districts: Stephanie Jacobi, Donald R. Goenner

St. John's Elementary School, Duluth Diocese

**PURPOSE:** The students shall compare and contrast weather differences throughout the United States in comparison to their local weather.

**DESCRIPTION:** In a cooperative group setting, the children shall use computer technology and the internet, as well as standard weather gathering tools, to obtain data concerning local and non-local weather in comparison to other areas within the United States. A visiting weather specialist will be used to excite and interest the students about the project. This information will be placed in a data base, graphed, evaluated, and presented both visually and orally to their classmates.

ACTIVITIES	Curriculum Standards	Minnesota Technology Standards (MEMO)	ISTE-NETS	Information Literacy Standard	Big 6
After viewing the KDAL website, students will personally interview visitor 'Kyle Underwood' concerning weather pattern differences throughout the United States. An overview of the project shall be given to the students.		IA	6.1	1.1 1.3	1
Students will be led in a brainstorming session on the best way to obtain data for the project.	LA IIIC	IA IIA	5.3	1.4 2.4	2.1 2.2
Students shall choose 5 cities, including their own to compare weather. Children should choose cities of probable differentiating weather patterns.		IA IIA IVC	5.1 2.2	1.5 7.1 2.1 2.2	3 4.5
Students locate cities via weather.com, another such URL for information concerning their chosen cities.	LA IID	IA IIIA IVB IVC	2.2	2.1 2.2	4
Students shall gather information to compare local weather results to web related results.	Sci. IIIB LA IID	IA IVB IVC	2.2	2.1 2.2	4
Students shall record information into a database.	Math IV	IA	3.2	3.1	5.1

		IVC	4.2	3.4 9.1	
Students shall graph information on a database	Math IV	IA IIB IVC	3.2 4.2	3.1 3.4 9.1	5.1
Students, after 2 weeks, present information to the class visually and orally for final evaluation.	LA III 1,2,3	IA IIB IVC	3.2 4.2 3.1	3.1 3.4 9.1 6.1	5.2 6
Students shall examine their own results using the self evaluation sheet.		IA	3.1	6.1	6.1 6.2

**TOOLS AND RESOURCES:**

Media or Classroom Computer System  
Weatherman -Kyle Underwood  
Internet Connection  
Excel Database  
[www.weather.com](http://www.weather.com)  
[www.noaa.gov](http://www.noaa.gov)  
[www.wdio.com/index.cfm](http://www.wdio.com/index.cfm)

**ASSESSMENT:**

Student based cooperative rubric attached.  
Teacher bases rubric attached.

**CREDITS (INCLUDING CONTACT INFORMATION):**

(Record the names and e-mail addresses, if possible, of those who contributed to the development of this learning activity.)

Stephanie Jacobi [sjacobi@stjohnsduluth.org](mailto:sjacobi@stjohnsduluth.org)  
Donald R. Goenner [mr@goenner.us](mailto:mr@goenner.us)

**COMMENTS:**

NONE