

## **Project Title: Rose/Germscheid Weather**

### **Brief Description:**

Students will use technology to discover weather patterns in Pennsylvania and one other state. They will understand that weather has patterns and patterns differ within climatic zones. Using technology to assist them, they will become capable information technology users, information seekers, communicators and collaborators. They will use technology responsibly.

**Teacher Name(s):** Mrs. Jacquelyn Germscheid/Mrs. Susan Rose

**School(s):** Penn Valley

**Grade(s):** Second Grade

### **Disciplines:**

Science/Math/ Soc. Studies/Language Arts

### **Standards & Benchmarks (for each Discipline):**

#### **Technology**

1. ( 1.1 a through e ) - Use and control mouse, track pad, or other pointer device to move pointer on screen.
2. (1.2 a through c ) - Use a variety of media and technology resources for directed and independent learning.
3. ( 2.1 a through d) - Work cooperatively and collaboratively with peers when using technology.

#### **Science**

1. ( 3. c ) - Use knowledge of patterns to predict next occurrences.

#### **Social Studies**

- 1 ( 7.1.3 B) - Identify and locate places
2. (7.2.3 a) - Identify physical characteristics of places and regions
3. (8.1.3 B) - Develop an understanding of historical sources

#### **Reading**

1. ( 1.8.3 B - Use traditional and electronic search tools.
2. ( 1,8.3 B)- Organize and present the main ideas from research.

#### **Math**

1. (2.6.3 A) - Gather, organize and display data using pictures, tallies, charts, bar graphs and pictographs.
2. (2.6.3 B) - Formulate and answer questions based on the data shown on graphs.

### **Enduring Understanding & Essential Question(s):**

1. Where in the United States are severe weather patterns likely to occur?

2. Which weather patterns are predominant in particular regions of our country?
3. How do weather patterns affect us?

**Assessment(s) (formative and summative):**

1. Students will demonstrate correct use of password.
2. Students will demonstrate accessing shared folders.
3. Students will read the listed sites to locate the answer for each question.
4. Children will be able to tell new insights they gained from the research.

**Instructional Strategies (including Constructivist attributes):**

1. Children will work with a partner from the other second grade class.
2. Teacher will model locating information from Pennsylvania.
3. Students will demonstrate searching sites to answer specific questions about Pa.
4. Students will write information on hard copy.
5. Students will do their assigned state in pairs, using the laptops.
6. Results will be recorded on the laptops.

**Resources (including Technology hardware/software):**

1. 20 laptops
2. one presentation computer
3. multiple books on weather
4. maps
5. calculators

**Connections, Adaptations/Extensions (to Differentiate Learning):**

1. Read alouds about weather.
2. Reader's Theatre on Weather topics.
3. Create weather instruments.
4. Brain Pop to visualize severe weather storms.
5. Pair students (high/low) for success.

**Implementation Notes:**

1. Teacher models accessing sites.
2. Students demonstrate on presentation computer.
3. Students work in partners to locate information and record findings.
4. Create a chart to compare states for observations and discussions.

Attachments/Exhibitions:

1. Hardcopy of the lesson.
2. Slides of students collaborating with partners from the two classes.

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