Geological Development of Indiana and the Movement of Peoples Across the State

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Purpose:

In order to better understand the geological development of Indiana and the movement of peoples across the state, students will interact with a web site published by the United States Geological Survey.

Grade: 4

Geography Standards addressed:

- #1) How to use maps and other geographic representations, tools, and technologies to acquire, process and report information from a spatial perspective.
- #2) How to use mental maps to organize information about people, places and environments in a spatial context.
- #3) How to analyze the spatial organization of people, places and environments on Earth’s surface.
- #4) The physical and human characteristics of places.
- #7) The physical processes that shape the patterns of Earth’s surface.
- #16) The changes that occur in the meaning, use, distribution and importance of resources.

Materials:

- Access to internet
- Map of Indiana
- Chart/graph paper - pencil/paper
- Markers - other needs of student groups

Objectives:

Upon completion of this activity, students will be able to:

1. locate earthquake zones in Indiana,
2. locate energy resources in Indiana, and
3. identify minerals found in Indiana.

Background:

Students will be divided into teams working on reports about Indiana.

Procedures:

1. Students will access the website http://geology.er.usgs.gov/states/midwest.html
2. Each group will decide which of the map links they should access.
• 3. Students will access website to obtain information.
• 4. Students will interpret the information given.
• 5. Students will use wall map of Indiana to sow location of geological information.
• 6. Students will interpret information and present to class how the geological information has influenced "Hoosier" culture.

**Evaluation:**
Students will acknowledge the factors of geological factors and human movement.

**Adaptations/Extensions:**

• 1. Math: How is the economy affected by natural resources?
• 2. Science: What are the characteristics needed to create earthquakes? minerals? natural resources?
• 3. Language: Students can write reports on their findings.
• 4. Fine Arts: Students can draw resource maps.

**Web Sites Accessed:**
http://geology.er.usgs.gov/states/midwest.html