**Minerals and Mining**

**Group Research Project, due: 9/13/13**

*This is an independent group research project. Each group will have two students. Groups will select one of the following topics. The purpose of the assignment is to build your understanding of minerals and mining.*

1. Create a 5-minute video that **demonstrates** different minerals classifications. Show the following tests: luster, streak, hardness, cleavage, fracture, and special characteristics.
2. Create a 5-minute Prezi that **provides information** about an Alaskan mineral. Include the following: chemical formula, composition, color, streak, luster, cleavage/fracture, hardness and specific gravity. Where is the mineral found? Is it mined? What use does it have? Any other interesting information?
3. Create a 5-minute **persuasive** video that either **supports or opposes** mining in Bristol Bay or the Stikine River. The argument should focus on facts and present both sides of the argument.
4. Create a 5-minute Prezi that **provides information** about one type of placer mining in Alaska. What type of mineral are the miners looking for and where are the mines? What type of sediment is the mineral in and how did it get there? Are they any environmental concerns? Tell a little about the history of the mining.

*This is a science project and must have facts about minerals and mining. Your multimedia presentations should have pictures/photos and be engaging. Your grade will be based on the following criteria:*

**Research**

* We used more than one source of information (for example one book and one website)
* We used websites that were credible
* We wrote down where we got the information

**Cooperative Work**

* I worked well with my group members
* I did my share of the work
* My work made this project better

**Relating Concepts**

* We showed how this project relates to what we are studying in class
* We showed how minerals and mining relates to science and technology
* We showed how minerals and mining relates to our community

**Presentation**

* We made an outline or storyboard to organize our project
* The presentation clearly explained the topic of the project
* Main points were organized in a meaningful way
* The organization was easy for others to follow
* The media presentation was professional and clear
* Sources of facts and photos were cited
* **Provided a short, 3 question worksheet to help your classmates learn**

Have fun, be creative and appropriate humor is always appreciated!