



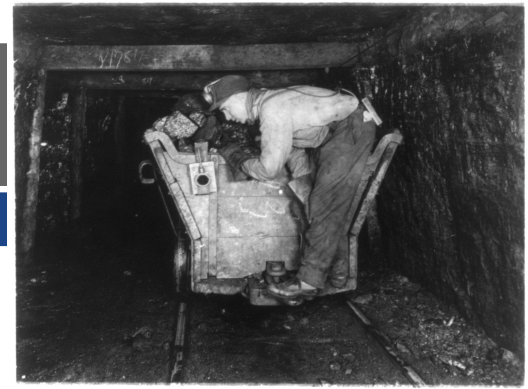
Science Virtual Learning

7th Grade Science

Mining



May 4, 2020

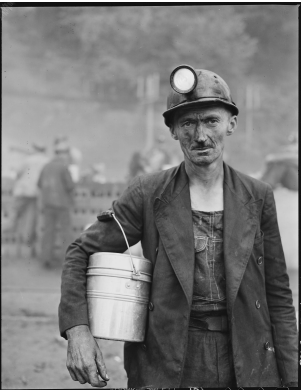


7th Grade Science Lesson: May 4, 2020

Objective/Learning Target:

I can describe mining and its effects on the environment.

Next watch this Video Over: [Mining](#)



Bellwork (Do this first on your own piece of paper): Click on the link below and make observations about how each stage of mining changes over time.

The Life of a Mine





Some Key Points to Remember...

(write these down on a piece of paper to use for today's practice- you may shorten or paraphrase your notes.)

- Society today uses vast quantities of minerals. The list of products in our lives that use minerals seems inexhaustible, whether cars, computers, appliances or cell phones. For example, a modern electronic device such as a cell phone uses at least 35 different minerals
- In most cases, mining companies undertake measures to limit the long-term effects of mining. Open-pit mines require removing areas of soil above the mineral deposits. Reclamation efforts focus on returning native soils, plants, and animals to support regrowth and biodiversity in the area. Additionally, channels are created to help manage clean surface water. These channels ensure that water impacted by mine waste is kept separate from clean water and reduce erosion of soil and vegetation.

Credit: https://www.digintomining.com/sites/default/files/content-files/DIMActivity_MinimalistMining.pdf

Key Points to Remember....

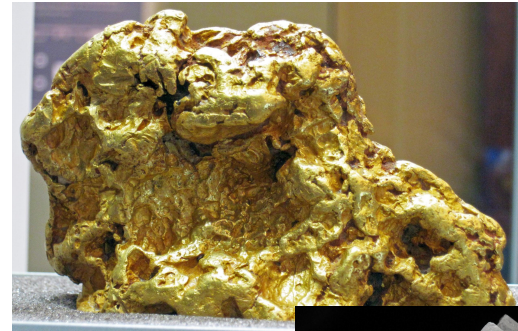
(Write these down on a piece of paper to use for today's practice-you may shorten or paraphrase your notes)

- Reclamation - Returning something to its former state or create an alternative land use
- Sustainability - Methods that do not completely destroy or use up natural resources



○ Choose 1 of the following Minerals to do your research over:

- Aluminum
- Chromite (chrome)
- Copper
- Gold
- Halite (sodium chloride/salt)
- Iron ore
- Lead
- Nickel
- Silica (sand, glass)
- Silver



More Practice (Answer on your own piece of paper-Answers will vary depending on Mineral that is chosen for research)...

- Using the mineral you chose to research from your previous slide...

Which mineral did you choose for your research?

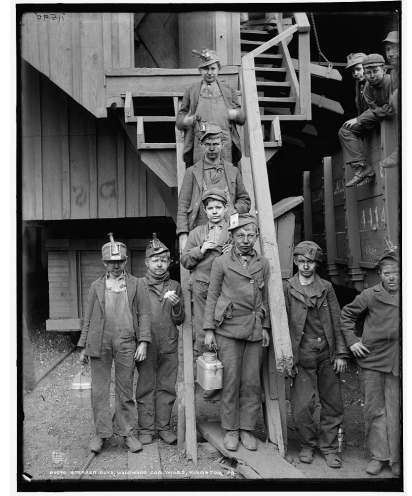
List three benefits of your chosen mineral.

- 1.
- 2.
- 3.

Compare the amount of the mineral mined in the United States with the amount mined elsewhere in the world.

Describe the primary method by which the mineral is mined.

Classify and compare three environmental effects caused by mining the mineral.





More Practice- On your own paper, write down 3 new things you learned from each simulation for a total of 6

[Dig Into Mining-The Story of Copper](#)

[Aim to Reclaim!-Virtual Lab](#) - Click New User