



MINING IN SOCIETY

MERIT
BADGE

Through exploring the Virtual Race Course for Cyber Sled Race: Mine for Gold, complete this worksheet to demonstrate your knowledge of mining in society. This worksheet will not be turned in and for your own use to demonstrate knowledge.

SCOUT / VENTURER NAME: _____

Select 10 different minerals. For each one, name a product for which the mineral is used and determine the countries where those minerals can be found.

Mineral	Product for which the mineral is used	Countries Found

Explain the role mining has in production and processing things that are grown.

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A HomeScouting
Adventure

Do the following:

- Obtain a map of your state or region showing major cities, highways, rivers, and railroads.
- Mark the locations of five different mining enterprises.
- Find out what resource is processed at each location, and identify the mine as a surface or underground operation.
- How is it resourced mined at each location?

Use the chart below to help you, if needed. You can also simply write on the map you obtain.

Location	What resource is processed	Surface / underground	How it is mined

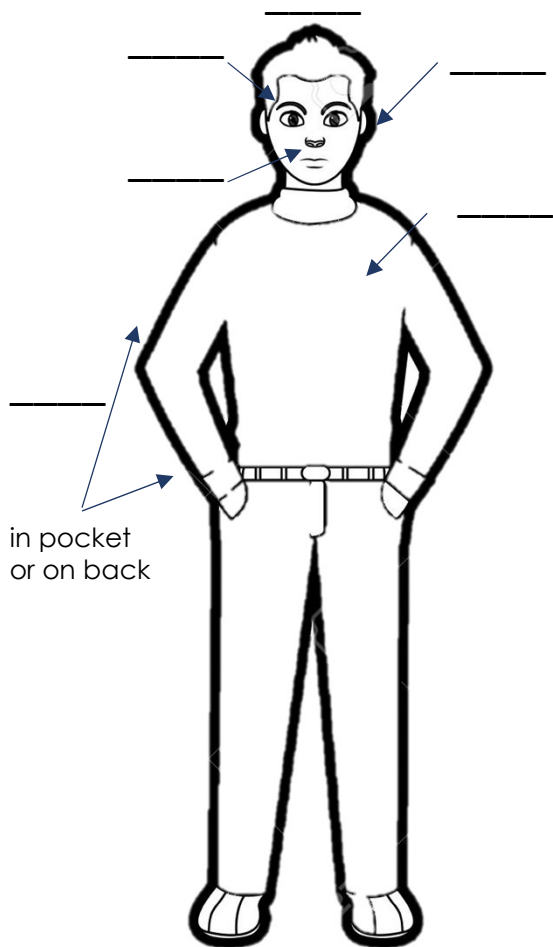
What are potential hazards a miner may encounter at an active mine?

What are protective measures used by miners to keep them safe?



Explain how miner's wear the protective equipment below by matching the equipment to the location worn on a body.

- A. Hard Hat
- B. Safety Glasses
- C. Earplugs
- D. Dust Mask/Respirator
- E. Self-rescue device
- F. High-visibility vest



Explain how miners protect their hands and feet from the following:

Impact hazards

Pinch hazards

Vibration hazards

Slipping hazards

Tripping and falling hazards



How does monitoring equipment warn miners of imminent danger?

How are robots used in mine rescues?

Why are abandoned mines dangerous?

What is the “Stay Out – Stay Alive” program?

Do ONE of the following: *Use a separate piece of paper to take notes about what you completed.*

- Take a virtual tour of two types of mines.** Determine the similarities and differences between them regarding resource exploration, mine planning and permitting, types of equipment used, and the minerals produced.
- Visit a mining or minerals exhibit at a museum.** Find out about the history of the museum’s exhibit and the type of mining it represents. Give three examples of how mineral resources have influenced history.
- Visit an active mine.** Find out about the tasks required to explore, plan, permit, mine, and process the resource mined at that site. Take photographs if allowed, and request brochures from your visit.
- Visit a mining equipment manufacturer or supplier.** Discuss the types of equipment produced or supplied there, and in what part of the mining process this equipment is used. Take photographs if allowed, and request brochures from your visit.
- Learn about two methods used to reduce rock in size,** one of which uses a chemical process to extract a mineral. Explain the difference between smelting and refining.
- Learn about the history of a local mine,** including what is or was mined there, how the deposit was found, the mining techniques and processes used, and how the mined resource is or was used. Find out how mining has affected your community. Note any social, cultural, or economic consequences of mining in your area.



Choose a modern mining site. Find out what is being done to help control environmental impacts.

My Modern Mining Site: _____

What is being done at this site to help control environmental impacts?

List 1 fact about mining and sustainability.

Explain reclamation as it is used in mining and how mine reclamation pertains to Scouting's no-trace principles.

Describe values society has about returning the land to the benefit of wildlife and people after mining has ended.

How has the Summit Bechtel Scout Reserve been transformed from a mine site to its current role?
