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.

Mineral	Product for which the mineral is used	Countries Found



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	A	dv	en	tu	re	

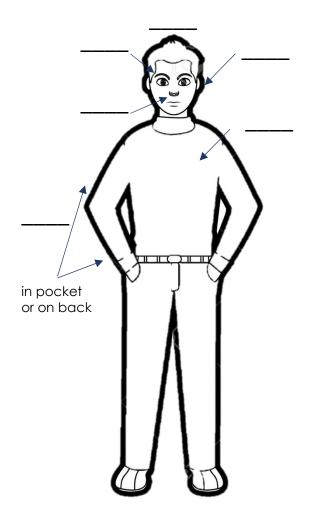
 Do the following: Obtain a map of your state or region showing major cities, highways, rivers, and railroads. Mark the locations of five different mining enterprises. Find out what resource is processed at each location, and identify the mine as a surface or underground operation. How is it resourced 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 Surface / processed underground How it is mined					
What are po	tential hazards a 1	miner may enc	ounter at an active mine?		
What are pro	otective measures	used by mine	rs to keep them safe?		

MINING IN SOCIETY MERIT &



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



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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?

Da	ONE of the following:
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	Explore the anticipated benefits of interplanetary mining. Learn how NASA and private
	investors may search for, extract, and process minerals in outer space, and the primary
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	reasons for mining the moon, other planets, or near-Earth asteroids. Find out how
	exploration and mineral processing in space differ from exploration on Earth. Share what
	you have learned and discuss the difficulties encountered in exploring, collecting, and
_	analyzing surface or near-surface samples in space.
	Identify three minerals found dissolved in seawater or found on the ocean floor, and list
	three places where the ocean is mined today. Share and discuss the chief incentives for
	mining the oceans for minerals, the reclamation necessary after mining is over, and any
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	special concerns when mining minerals from the ocean. Find out what sustainability
	problems arise from mining the oceans.
	Learn what metals and minerals are recycled after their original use has ended. List four
	metals and two nonmetals, and find out how each can be recycled. Find out how recycling
	affects the sustainability of natural resources and how this idea is related to mining.
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	Determine the current price of gold, copper, aluminum, or other commodities like cement
	or coal, and find out the five-year price trend for two of these.
llec	the space below to take notes.
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Adventure

Do ONE of the following:

- ☐ Meet with someone in the mining or panning industry. Discuss the work, equipment, and technology used in this individual's position, and learn about a current project. Ask how the individual's mining or panning career began.
- Find out about three career opportunities in the mining industry. Pick one and find out the education, training, and experience required for this profession. Explain why this profession might interest you.
- ☐ Visit a career academy or community college to learn about educational and training requirements for a position in the mining industry that interests you. Find out why this position is critical to the mining industry, and discuss what you learned.

se the space below to take notes.