MINING IN SOCIETY MERIT BADGE WORKBOOK

This Scoutmaster Bucky Merit Badge Workbook is based off the current Scouts BSA Requirements.

Consider also using the Mining in Society merit badge class preparation page for clarification and expections when participating in a Scoutmaster Bucky merit badge opportunity (online or in-person).

https://scoutmasterbucky.com/merit-badges/mining-in-society/

Scout's	
Name:	
REQUIREMENT 1: Do the following:	
REQUIREMENT 1 A: Select 10 different minerals. For each o	ne, name a product for which the mineral is used.
REQUIREMENT 1 B: Explain the role mining has in producing	g and processing things that are grown.

REQUIREMENT 1 C: From the list of minerals you chose for requirement 1a, determine the countries where those minerals can be found, and discuss what you learned with your counselor split: - lines: 4 - lines: 4 - split: - lines: 4 - split: - lines: 4 - lines:
REQUIREMENT 2: Obtain a map of your state or region showing major cities, highways, rivers, and railroads. Mark the locations of five mining enterprises. Find out what resource is processed at each location, and identify the mine as a surface or underground operation. Discuss with your counselor how the resources mined at these locations are used.
Completed
REQUIREMENT 3: Discuss with your counselor the potential hazards a miner may encounter at an active mine and the protective measures used by miners. In your discussion, explain how:
REQUIREMENT 3 A: The miner's personal protective equipment is worn and used, including a hard hat, safety glasses, earplugs, dust mask or respirator, self-rescue device, and high-visibility vest.

REQUIREMENT hazards.	3 B:	Miners	protect	their	hands	and	feet	from	impact,	pinch,	vibration,	slipping,	and	tripping/falling
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REQUIREMENT	3 C: N	1onitorii	ng equip	ment	warns ı	mine	rs of i	mmin	ent dang	ger, and	l how robo	ts are use	d in r	mine rescues.
REQUIREMENT	4: Dis	cuss wit	th your c	ounse	lor the	dang	gers s	omeo	ne migh	t encou	nter at an	abandone	ed mi	ne or quarry.
REQUIREMENT	5: Do	ONE of	the follo	wing:										
REQUIREMENT virtual tour of t exploration, min counselor what y	two ty e plar	ypes of nning a	mines. nd perm	Dete nitting	rmine types	the of e	simil equip	arities ment	and d	ifferenc	es betwee	en them	rega	rding resource

REQUIREMENT 5 B: With your parent's permission and counselor's approval, visit a mining or minerals exhibit museum. Find out about the history of the museum's exhibit and the type of mining it represents. Give three examples how mineral resources have influenced history.	
DECHINES FOR With view regards regards and severelage engaged visit or estimated by	
REQUIREMENT 5 C: With your parent's permission and counselor's approval, visit an active mine.* Find out abo tasks required to explore, plan, permit, mine, and process the resource mined at that site. Take photographs if all and request brochures from your visit. Share photos, brochures, and what you have learned with your counselor.	
REQUIREMENT 5 D: With your parent's permission and counselor's approval, visit a mining equipment manufacture supplier.* Discuss the types of equipment produced or supplied there, and in what part of the mining process equipment is used. Take photographs if allowed, and request brochures from your visit. Share photos, brochures, and you have learned with your counselor.	s this
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REQUIREMENT 5 E: Discuss with your counselor 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.
REQUIREMENT 5 F: 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 from a historian,
community leader, or business person how mining has affected your community. Note any social, cultural, or economic
consequences of mining in your area. Share what you have learned with your counselor.
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* Visiting a mine site, a mining equipment manufacturer, or an equipment supplier requires advance planning. These
sites can be potentially dangerous. You will need permission from your parent and counselor, and the manager of the
mine site, or equipment manufacturer or supplier. While there, you will be required to follow closely the site manager's
instructions and comply with all safety rules and procedures, including wearing appropriate clothing, footwear, and
personal safety equipment.
personal safety equipment.
REQUIREMENT 6: Do the following:
The Control of the following.
REQUIREMENT 6 A: Choose a modern mining site. Find out what is being done to help control environmental impacts.
Share what you have learned about mining and sustainability.

REQUIREMENT 6 B: Explain reclamation as it is used in mining and how mine reclamation pertains to Scouting's no-trace principles.
REQUIREMENT 6 C: Discuss with your counselor what values society has about returning the land to the benefit of wildlife and people after mining has ended. Discuss the transformation of the BSA Summit Bechtel Family National Scout Reserve from a mine site to its current role.
REQUIREMENT 7: Do ONE of the following:
TEQUITED TO BE ONE of the following.
REQUIREMENT 7 A: 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 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 with your counselor, and discuss the difficulties encountered in exploring, collecting, and analyzing surface or near-surface samples in space.

REQUIREMENT 7 B: Identify three mine where the ocean is mined today. Share the oceans for minerals, the reclamation from the ocean. Find out what sustainal counselor.	this information with necessary after mi	n your counselor, and ning is over, and any	d discuss the chief incer special concerns when	ntives for mining mining mining minerals
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REQUIREMENT 7 C: Learn what metals	and minerals are re	cycled after their orig	ginal use has ended. List	four metals and
two nonmetals, and find out how each resources and how this idea is related to	can be recycled.	ind out how recycl	ing affects the sustaina	
resources and now this face is related to	mmig. Discuss wha	e you learn with your	counscior.	
How recycling affects the sustainability of natural	resources and how this ic	ea is related to mining		

REQUIREMENT 7 D: With your parent's permission, use the internet and other resources to 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. Report your findings to your counselor.
REQUIREMENT 8: Do ONE of the following:
REQUIREMENT 8 A: With your parent's and counselor's approval, interview a worker in the mining industry. Discuss the work, equipment, and technology used in this individual's position, and learn about a current project. Ask to see reports, drawings, and/or maps made for the project. Find out about the educational and professional requirements for this individual's position. Ask how the individual's mining career began. Discuss with your counselor what you have learned.
REQUIREMENT 8 B: Find out about three career opportunities in the mining industry. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.

REQUIREMENT 8 C: With your parent's permission and counselor's approval, 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 with your counselor.