





Scouts participating in a Scoutmaster Bucky merit badge opportunity, whether online or in person, should consider using the Mining in Society merit badge pamphlet for discovery and knowledge, along with the class preparation pages for clarifications, insights, and expectations.

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

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

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 OR GUARDIAN 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.

REQUIREMENTS 5b, 5c, 5d, 8a, and 8c REQUIRE COUNSELOR APPROVAL.

REQUIREMENTS 5a, 5b, 5c, 5d, 7d. 8a, and 8c REQUIRE PARENT / GUARDIAN PERMISSION OR APPROVAL.

REQUIREMENT 1a:	used.	Therent minerals. For each one, name a product for which the mineral is
MINERAL		PRODUCT FOR WHICH THE MINERAL IS USED
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
REQUIREMENT 1b:	Explain the	role mining has in producing and processing things that are grown.
Notes:		





REQUIREMENT 1c:	t of minerals you chose for requirement 1(a), determine the countries e minerals can be found, and discuss what you learned from your
MINERAL	COUNTRY/COUNTRIES WHERE THIS MINERAL CAN BE FOUND
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
Notes:	







REQUIREMENT 2: Obtain a map of your state or region showing major cities, highways, rivers, and railroads.

•	e for obtaining a map as the requirement states. Don't forget to bring it with you. irement must be reviewed with your merit badge counselor. BE PREPARED!
REQUIREMENT 2:	On your map, 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.
MINING ENTERPRISE #1:	
Name of Enterprise and	Location:
Resource(s) processed a	at this Location:
Surface or Underground	Operation:
How this/these Resource	e(s) is/are used:
MINING ENTERPRISE #2:	
Name of Enterprise and	Location:
Resource(s) processed a	at this Location:
Surface or Underground	Operation:
How this/these Resource	e(s) is/are used:





MINING ENTERPRISE #3:
Name of Enterprise and Location:
Resource(s) processed at this Location:
Surface or Underground Operation:
How this/these Resource(s) is/are used:
MINING ENTERPRISE #4:
Name of Enterprise and Location:
Name of Enterprise and Location:
Name of Enterprise and Location: Resource(s) processed at this Location:
Resource(s) processed at this Location:
Resource(s) processed at this Location:
Resource(s) processed at this Location: Surface or Underground Operation:
Resource(s) processed at this Location: Surface or Underground Operation:
Resource(s) processed at this Location: Surface or Underground Operation:
Resource(s) processed at this Location: Surface or Underground Operation:
Resource(s) processed at this Location: Surface or Underground Operation:





MINING ENTERPRISE #5:	
Name of Enterprise and	Location:
Resource(s) processed a	at this Location:
Surface or Underground	Operation:
How this/these Resource	e(s) is/are used:
DECHIDEMENT 2.	Discuss with your souppolar the notantial hazards a minor may appounter at an
REQUIREMENT 3:	Discuss with your counselor the potential hazards a miner may encounter at an active mine.
Notes:	Discuss with your counselor the potential hazards a miner may encounter at an active mine.
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REQUIREMENT 3:	Discuss with your counselor the protective measures used by miners.
Notes:	
DECLUDEMENT A	
REQUIREMENT 3a:	Explain how 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 3a: Notes:	a hard hat, safety glasses, earplugs, dust mask or respirator, self-rescue device, and
	a hard hat, safety glasses, earplugs, dust mask or respirator, self-rescue device, and
	a hard hat, safety glasses, earplugs, dust mask or respirator, self-rescue device, and
	a hard hat, safety glasses, earplugs, dust mask or respirator, self-rescue device, and
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Notes:	a hard hat, safety glasses, earplugs, dust mask or respirator, self-rescue device, and





Safety Glasses:
Ear Plugs:
Develo Marala an Daraninatan
Dusk Mask or Respirator:
Self-Rescue Device:
High Visibility Vest:







REQUIREMENT 3D:	slipping, and tripping/falling hazards.
Notes:	
REQUIREMENT 3c:	Explain how monitoring equipment warns miners of imminent danger
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REQUIREMENT 3c:	Explain how robots, drones, and other technology may be used in mine rescues.
Notes:	
REQUIREMENT 4:	Discuss with your counselor the dangers someone might encounter at an abandoned
REQUIREMENT 4:	Discuss with your counselor the dangers someone might encounter at an abandoned mine or quarry.
Notes:	





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DO ONE OF THE FOLLOWING (5A, 5B, 5C, 5D, 5E, or 5F) FOR REQUIREMENT 5

REQUIREMENT 5a:	With your parent or guardian's approval a internet to find and take a virtual tour of two	nd your couns types of mine	selor's assistance, use the es.
PARENT/GUARDIAN APPRO	DVAL: IS REQUIRED.		
Parent's / Guardian's Name		Phone or Email	
Parent's / Guardian's Signature		Date	
-		Date	approval
VIRTUAL MINE TOUR #1:			
Mine Name and Location	1.		
Website URL:			
VIRTUAL MINE TOUR #2:			
Mine Name and Location	n:		
Website URL:			
Notes:			







REQUIREMENT 5a:

Determine the similarities and differences between them regarding resource exploration, mine planning and permitting, types of equipment used, and the minerals produced. Discuss with your counselor what you learned from your internet-based mine tours.

RESOURCES EXPLORATION:	
SIMILARITIES	DIFFERENCES
MINE PLANNING AND PERMITTING:	
SIMILARITIES	DIFFERENCES





TYPES OF EQUIPMENT USED:	
SIMILARITIES	DIFFERENCES
SIMICANTILES	DII I ENEROLO
MINERALS PRODUCED:	
MINERALS PRODUCED:	DIFFERENCES
MINERALS PRODUCED: SIMILARITIES	DIFFERENCES
	DIFFERENCES





REQUIREMENT 5b:	or minerals exhibit a			counselor's a	approval, visi	t a mining
PARENT/GUARDIAN PERMIS	SSION: IS REQUIRED.					
Parent's / Guardian's Name			Phor	ne or Email		
				o or Email		
Parent's / Guardian's Signature			Date		permission	
COUNSELOR APPROVAL: IS	REQUIRED.					
Counselor's Name			Phon	ne or Email		
Counselor's Signature			Date		approved	
Mining or Minerals Exhibi	t:					
Date and Time of Visit:						
REQUIREMENT 5b:	Find out about the represents.	history of	the museum's	exhibit and	the type of	mining it
Notes:						





REQUIREMENT 5b:	Give three examples of how mineral resources have influenced history.
Example #1:	
Example #2:	
Example #3:	







REQUIREMENT 5c:	With your parent or guardian's permission mine.	and counselor	's ap	proval, visit an active
PARENT/GUARDIAN PERMI	SSION: IS REQUIRED.			
Parent's / Guardian's Name		Phone or Email		
Parent's / Guardian's Signature		Date		permission
COUNSELOR APPROVAL: IS	S REQUIRED.			
Counselor's Name		Phone or Email		
Counselor's Signature		Date		approved
Active Mine Name and L	ocation:			
Date and Time of Visit:				
REQUIREMENT 5c:	Find out about the tasks required to exploresource mined at that site.	ore, plan, pern	nit, m	nine, and process the
Explore:				





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Plan:	
Permit:	
Mine:	
Durana	
Process:	
DECUMPEMENT 500	Take photographs if allowed and request breakings from visit Charachites
REQUIREMENT 5c:	Take photographs, if allowed, and request brochures from your visit. Share photos, brochures, and what you have learned with your counselor.
ъ.	

Bring your photos and brochures to share with your counselor This requirement must be reviewed with your merit badge counselor.

BE PREPARED!





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REQUIREMENT 5d: With your parent or guardian's permission and counselor's approval, visit a mining equipment manufacturer or supplier. PARENT/GUARDIAN PERMISSION: IS REQUIRED. Parent's / Guardian's Name Phone or Email Parent's / Guardian's Signature Date permission **COUNSELOR APPROVAL: IS REQUIRED.** Counselor's Name Phone or Email Counselor's Signature Date approved Mining Equipment Manufacturer or Supplier Name and Location: Date and Time of Visit: **REQUIREMENT 5d:** Discuss the types of equipment produced or supplied there. Notes:





REQUIREMENT 50.	if allowed, and request brochures from your visit. Share photos, brochures, and what
	you have learned with your counselor.
Notes:	
REQUIREMENT 5d:	Take photographs if allowed, and request brochures from your visit. Share photos, brochures, and what you have learned with your counselor.
	ng your photos and brochures to share with your counselor
This requ	uirement must be reviewed with your merit badge counselor. BE PREPARED!
REQUIREMENT 5e:	Discuss with your counselor two methods used to reduce rock in size, one of which uses a chemical process to extract a mineral.
METHOD TO REDUCE RO	OCK IN SIZE USING CHEMICAL PROCESS TO EXTRACT A MINERAL:
Notes:	
ANOTHER METHOD TO R	REDUCE ROCK IN SIZE:
ANOTHER METHOD TO F Notes:	REDUCE ROCK IN SIZE:
	REDUCE ROCK IN SIZE:





REQUIREMENT 5e:	Explain the difference between smelting and refining.
Smelting:	
Refining:	
REQUIREMENT 5f:	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.
Local Mine Name and Lo	
Loodi Willie Name and Le	oddion.
What is/was mine there:	
How was this deposit for	und?





Mining Techniques and I	Oroceses used:
i willing recrimques and r	Flocesses used.
How the mined resource	e is/was used:
REQUIREMENT 5f:	Find out from a historian, community leader, or business person how mining has
regontement on	affected your community. Note any social, cultural, or economic consequences of
	mining in your area. Share what you have learned with your counselor.
Notes	mining in your area. Chare make you have reamed man your ocumeers.
Notes:	







REQUIREMENT 6a:	Choose a modern mining site.
Site Name and Location:	
REQUIREMENT 6a:	Find out what is being done to help control environmental impacts. Share what you have learned about mining and sustainability.
Notes:	
REQUIREMENT 6b:	Explain reclamation as it is used in mining.
Notes:	







REQUIREMENT 6b:

Explain how mine reclamation pertains to the Leave No Trace Seven Principles and the Outdoor Code.

AMERICAN WORKER CONCERN #1:



- 1. Plan Ahead & Prepare
- 2. Travel & Camp on Durable Surfaces
- 3. Dispose of Waste Properly
- Leave What You Find
- Minimize Campfire Impacts
- 6. Respect Wildlife
- Be Considerate of Other Visitors

Outdoor Code

As an American, I will do my best to-

Be Clean in my outdoor manners,

Be Careful with fire,

Be Considerate in the outdoors, and

Be Conservation-minded

Notes:







REQUIREMENT 6c:	Discuss with your counselor what values society has about returning the land to the benefit of wildlife and people after mining has ended.
Notes:	
REQUIREMENT 6c:	Discuss the transformation of the Scouting America's Summit Bechtel Family
	Discuss the transformation of the Scouting America's Summit Bechtel Family National Scout Reserve from a mine site to its current role.
REQUIREMENT 6c: Notes:	Discuss the transformation of the Scouting America's Summit Bechtel Family National Scout Reserve from a mine site to its current role.
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DO ONE OF THE FOLLOWING (7A, 7B, 7C, or 7D) FOR REQUIREMENT 7

REQUIREMENT 7a:	Explore the anticipated benefits of interplanetary mining.
Notes:	
REQUIREMENT 7a:	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.
Notes:	Editii dsteroids.
Notes.	







REQUIREMENT 7a:	Find out how exploration and mineral processing in space differ from exploration on Earth.
Notes:	
REQUIREMENT 7a:	Share what you have learned with your counselor, and discuss the difficulties
REQUIREMENT 7a:	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.
	encountered in exploring, collecting, and analyzing surface or near-surface samples
	encountered in exploring, collecting, and analyzing surface or near-surface samples
	encountered in exploring, collecting, and analyzing surface or near-surface samples
	encountered in exploring, collecting, and analyzing surface or near-surface samples
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Notes:	encountered in exploring, collecting, and analyzing surface or near-surface samples
	encountered in exploring, collecting, and analyzing surface or near-surface samples
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	encountered in exploring, collecting, and analyzing surface or near-surface samples





REQUIREMENT 7b:	Identify three minerals found dissolved in seawater or found on the ocean floor.
Mineral #1:	
Mineral #2:	
Mineral #3:	
e.a. ne.	
REQUIREMENT 7b:	Identify three places where the ocean is mined today.
Location #1:	
Location #2:	
Location #3:	
REQUIREMENT 7b:	Discuss the chief incentives for mining the oceans for minerals.
REQUIREMENT 7b: Notes:	Discuss the chief incentives for mining the oceans for minerals.
	Discuss the chief incentives for mining the oceans for minerals.
	Discuss the chief incentives for mining the oceans for minerals.
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	Discuss the chief incentives for mining the oceans for minerals.
	Discuss the chief incentives for mining the oceans for minerals.







REQUIREMENT 7b:	Discuss the chief incentives for the reclamation necessary after mining is over.
Notes:	
DECLUDEMENT 75.	Discuss any analist concerns when mining minerals from the coop
REQUIREMENT 7b:	Discuss any special concerns when mining minerals from the ocean.
Notes:	
REQUIREMENT 7b:	Find out what sustainability problems arise from mining the oceans.
Notes:	







REQUIREMENT 7c:	Learn what metals and minerals are recycled after their original use has ended.
Notes:	
REQUIREMENT 7c:	List four metals and two nonmetals, and find out how each can be recycled. HOW IT IS RECYCLED
1.	HOW THIS NEST SEED
1. 	
2.	
3.	
J.	
4.	
NON-METAL	HOW IT IS RECYCLED
1.	
2.	
Notes:	





REQUIREMENT 7c:	Find out how recyclin idea is related to mini		natural resources and how this
Notes:			
REQUIREMENT 7d:	determine the current	t price of gold, copper, alumir ind out the five-year price tren	internet and other resources to num, or other commodities like d for two of these. Report your
PARENT/GUARDIAN PERM	ISSION: IS REQUIRED.		
Parent's / Guardian's Name		Phone or E	Email
Parent's / Guardian's Signatur	e	Date	permission
COMMODITY	CURRENT PRICE	UNIT OF MEASURE	FIVE YEAR TREND
GOLD			
SILVER			
COPPER			
ALUMINUM			
CEMENT			
COAL			







DO ONE OF THE FOLLOWING (8A, 8B, or 8C) FOR REQUIREMENT 8

REQUIREMENT 8a:	With your parent or guardian's and counse mining industry. Discuss the work, equindividual's position, and learn about a currand/or maps made for the project. Find our requirements for this individual's position. began. Discuss with your counselor what y	ipment, and ent project. As t about the ed Ask how the	techi k to s ucation indiv	nology used in this ee reports, drawings, onal and professional
Person's Name:				
Association / Position:				
Date and Time of Visit:				
PARENT/GUARDIAN PERMI	SSION: IS REQUIRED.			
Parent's / Guardian's Name	_	Phone or Email		
Parent's / Guardian's Signature	_	Date		permission
COUNSELOR APPROVAL: IS	S REQUIRED.			
Counselor's Name		Phone or Email		
Counselor's Signature		Date		approved
Notes:				





REQUIREMENT 8a:	position. Ask how the individual's mining career began. Discuss with your counselor what you have learned.
Education Requirements	s:
Professional Requireme	nts:
How this individual's min	ing career began:
Notes:	
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REQUIREMENT 8b:	Find out about three career opportunities in the mining industry.
Career Opportunity #1:	
Career Opportunity #2:	
Career Opportunity #3:	
REQUIREMENT 8b:	Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor.
Selected Career Opportu	unity:
Education Requirements	
Training Requirements:	
Experience Requirement	ts:
REQUIREMENT 8b:	Explain why this profession might interest you.
Notes:	