Visit us online!
https://www.ogm.utah.gov/amr

Our website offers more resources for teachers and current information about Utah’s mineral production.

Follow us on:
- @utahoilgasandmining
- @UtahOGM
- Utah DOGM

About the Workbook

*Mining Utah’s Heritage*, designed by AMRP staff and the State Office of Education, satisfies portions of the fourth-grade social studies core standards. We want this to be a fun resource for you and your students to use to learn about Utah’s mining history, minerals, and the importance of staying out of abandoned mines.

*Stay Out and Stay Alive!*

The abandoned mine safety DVD may be available in your school’s media center. You can also access the 25-minute video on YouTube in English (Stay Out and Stay Alive, Abandoned Mine Safety) and Spanish (Mantengase Afuera y Mantengase Vivo, SEGURIDAD EN MINAS ABANDONADAS). This video about abandoned mine hazards is a good way to introduce the workbook to your class! Don’t miss the bonus material on the DVD and on our website under the “Education” tab. Look for:

- a PDF file of the workbook
- answer sheet and teacher newsletter
- a teacher’s guide to the video
- a script for a skit illustrating the dangers of abandoned mines

Mining Heritage Web App

Look for the Mining Heritage and Tourism web app on our website, https://www.ogm.utah.gov/amr. Explore the interactive map and read about sites in Utah where significant events in mining history took place. Use the app to help you plan a road trip or field trip including stops at mining museums and monuments.

Fighting Coal Fires

AMRP fights coal fires if they ignite in abandoned mines or mine refuse dumps. In August 2021, AMRP was alerted about a burning coal seam and coal refuse pile in Peerless Canyon west of Helper. To put out both fires, our contractor had to excavate 2,100 cubic yards of earth* and mix it with almost 3,500 gallons of water. From January to March, we extinguished another coal refuse fire in Hardscrabble Canyon outside Helper. The Peerless and Hardscrabble fires were ignited by the Bear Wildfire in June 2021. Learn more and see photos and video on our Facebook page. 99% of Utah is in severe or extreme drought, so it’s important for students to be aware of the danger of wildfire and how to help prevent fires. You can find resources to share with your students at https://smokeybear.com/en/for-educators/elementary-resources.

*Corrected from an earlier version which read 2,800 cubic yards.

Are your students interested in a closer look at mining in Utah today?

The Utah Mining Association’s Mining Ambassador program offers fourth graders around Utah the chance to learn about this key part of our state’s economy from someone with direct experience. The Mining Ambassador program offers a free one-hour presentation that helps students connect the mining process to the objects they rely on every day. You can learn more and request an ambassador’s visit to your class at https://utahmining.org/education/grade-4-mining-ambassador-program/.

Did your students know…

18 species of bats are found in Utah, over half of which roost in abandoned mines? AMRP surveys abandoned mines for bat use before closing their entrances. Mines with bat use are closed with grates that allow bats to enter and exit but keep humans out. Hear about bats in Utah on Creatures of the Night, Episode 25 of Wild, the Utah Division of Wildlife Resources’ podcast: https://wildlife.utah.gov/wild-podcast/1289-creatures-of-the-night.html. Your students may enjoy activities for Bat Week, celebrated each October. Events can be found at https://batweek.org/. Educational resources are available at https://batweek.org/educate/.

*For more information contact Levy Woodruff at (801) 538-5352 or lkwoodruff@utah.gov.*
UNIT 1. MINING
We depend on mining every day
GAME 1 (Page 3)
1. Answers will vary. Gas, gallium, geranium, gold, gilsonite, sand. Answers will vary
GAME 2 (Page 5)
1. Farmers use fertilizer, irrigation systems, tractors.
2. Construction workers use concrete, tools, bricks, lunch buckets, hard hats.
3. To travel around the world and into space, we use: seat belts, trucks, trains, rocket ships, cars.
4. To play music, we use: French horns, cymbals, trumpets.
UNIT 1 HISTORY (Page 6)
1. Farm tools 2. Alta 3. Taco - Mexico; gyro - Greece; Sushi - Japan; Spaghetti - Italy (other answers will vary)
UNIT 1 SAFETY (Page 8)
5. Abandoned 6. Hurt 7. Lost
Secret Message: KEEP OUT
UNIT 2. MINING (Page 10)
Word Mine
UNIT 2 HISTORY (Page 11)
Meet some famous miners.
1. c 2. a 3. d 4. b 5. b 6. d 7. a 8. c
UNIT 2 SAFETY (Page 13)
Danger lurks at old mines.
UNIT 3. MINING (Page 15)
Look inside an underground mine.
UNIT 3 HISTORY (Page 18)
How did Carbon County get its name?
5. Spring Canyon 6. Castle Gate 7. Sunnyside 8. Latuda
UNIT 3 SAFETY (Page 19)
Old dynamite can blow up!
Scrambled word: Sheriff
UNIT 4. MINING (Page 20)
Surface mines are replanted.
1. Grass on after image should be colored
2. Dragline bucket is on the during image
3. The nest is on the before image
UNIT 4 HISTORY (Page 21)
Can you find Utah mining towns?
GAME 1
A HT A WAI HUX EB I P
H T O M M A M A T L A
R I H P O L L I H D O G
N O Y N A C G N R P S
R O L A P P V F D
D L A T E A N I A R
L O D D E X C R E E K I
E U R E K A K I
M A E A C G O C F I
D X A C G O
H I G E T N M C I Y
B A S I N I C M A T U R A I G Y
S E L L I Y L A O C J O Y
UNIT 4 SAFETY (Page 24)
Stay away from old mine shafts!
UNIT 5 MINING (Page 25)
Find what minerals you use everyday!
All listed items should be colored.
UNIT 5 HISTORY (Page 26)
Significant Events in Utah's Mining History
1862-5 1869 1873-4 1896-8 1900-9
1914-2 1945-3 1952-1 2010-6
UNIT 5 SAFETY (Page 27)
ATVs and abandoned mines don't mix
1. Some shafts were dug from the bottom up