ROCKIN' AROUND NEW MEXICO JULY 2022

CRITICAL MINERALS IN PREVENTING HAZARDS—ACTIVITIES

Sources of information

- V.T. McLemore powerpoint presentation (https://geoinfo.nmt.edu/staff/mclemore/documents/McLemoreRockinCM22.pdf)
- NMA Fact Sheet—uses of minerals
- USGS Mineral Commodity Summaries (<u>Mineral Commodity Summaries | U.S. Geological Survey (usgs.gov)</u>)
- Periodic table

Activity 1

1.	Wh	at is a mineral?
2.	Wh	at is a critical mineral?
3.		ich of the rocks and minerals you received contain critical minerals? List the sample and critical minerals in that sample.

Activity 2

w d	o critical minerals affect supply chains?
1.	What is a supply chain?
2.	What happens if a supply chain breaks?
3.	Why does a supply chain break?
4.	Sketch a supply chain to provide the raw materials for a Li-ion battery factory.

Activity 3

What critical minerals play a role in preventing hazards? Use the periodic table, diff	ferent colo	ors
for 1,2,3 and color the elements that go into making:		

- Earthquake proof bridge
 Fire proofing your house
- 3. Minerals make up batteries

What are the risks if we do not have certain critical minerals?					