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What makes something a mineral?

**Mineral Scavenger Hunt**

Name of your mine:		What county in Utah is this mine located in?	
What minerals are found in this mine?			
<b>Pick two of the minerals found in this mine. Research the properties of each mineral and what they are used for.</b>			
Name of Mineral	How is this mineral formed?	What are some of the ways we use this mineral?	

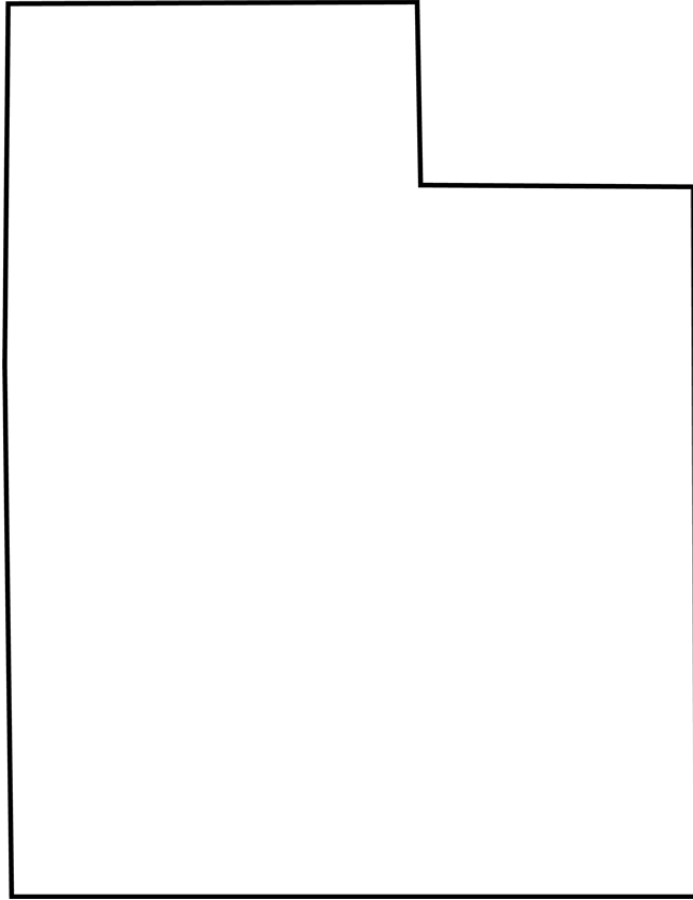
Your teacher will give you two slips of paper to write your information on. Tape them to objects in the room that contain the mineral. Walk around the room and find the papers for four minerals that you did not research. Record the information about these minerals below.

Name of Mineral	How is this mineral formed?	What are some of the ways we use this mineral?


In the previous section you researched how your minerals were formed. What does this tell you about Utah in the past?

Name of mineral:	How is it formed?	What does this tell you about Utah in the past?

Use what you have learned about how your minerals are formed and what has happened to the geology of Utah in the past to predict where you think these minerals could be found in Utah. Color in these areas on the map below.



Compare your prediction with a real mineral map of Utah. How close were you?

Explain what causes all minerals not to be found everywhere in Utah.

Give evidence to backup your claim. Explain why the minerals you researched are not found everywhere.

**Explaining the Phenomenon**

1. What did all of the objects in the box have in common?
2. Could we make cell phones without the products that are mined in Utah?
3. What are some other products that we wouldn't have without the minerals mined in Utah?





**Mineral Scavenger Hunt- Student Slips**

<p><b>Utah's Minerals Scavenger Hunt</b> Name of Mineral: Name of Mine where found:  Renewable or Nonrenewable?  Use for this mineral:</p>	<p><b>Utah's Minerals Scavenger Hunt</b> Name of Mineral: Name of Mine where found:  Renewable or Nonrenewable?  Use for this mineral:</p>
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**ADDITIONAL MATERIAL**

Major Mines in Utah	Minerals Mined
Bingham Canyon Copper Mine	Copper
Park City Mining District	Silver
Tintic Mining District	Silver
Brush Wellman	Beryllium
Glitter Mine, Little Salt Creek Gypsum Mine	Gypsum
Iron Mountain District	Iron
Intrepid Potash	Potash
Silver Reef, Escalante Silver Mine	Silver
InZinc Mining	Zinc
Energy Fuels Inc., Pandora Mine	Uranium

**Mystery Box Pictures**

<p>Quartz Sand (Glass)</p> 	<p>Sapphire (Glass)</p> 
<p>Crude oil (Plastic, PVC)</p> 	<p>Fiberglass</p> 

Mineral pigments, resin (Paint/Ink)



Charcoal



Lead (Galena)



Tantalum



Beryllium (Beryl)



Zinc



Aluminum (Bauxite)

Germanium





Lithium



Gallium



Cobalt



Nickel



Graphite



Palladium



Gold



Iron



Copper (Malachite)



Tungsten



Silver (Argentite)



Neodymium





Platinum

Silicon (Feldspar, quartz)

