**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_Date\_\_\_\_\_\_\_\_**

**Minerals Research Brochure Project**

Minerals and rocks are used in many everyday items. Often, the uses of minerals or rocks have changed or developed through time, so minerals or rocks that were significant years ago are not as useful today, while some minerals or rocks discovered more recently are extremely useful today. Another aspect of minerals and rocks that is often overlooked is that they are not universally abundant, considering their unique geographic location with respect to their use. We could easily spend a whole unit on mineral and rock uses or historical significance, but instead, I ask you in this assignment to research the location, use and significance of just one mineral. The unique mineral or rock that you are to research and write about will be assigned by your teacher.

**Mineral Choices:**

Graphite

Silver

Galena

Gold

Feldspar

Copper

Muscovite

Chromite

Hematite

Magnetite

Pyrite

Talc

Bauxite

Diamond

Gypsum

Olivine

Sulfur

Garnet

Biotite

Halite

Calcite

Dolomite

Fluorite

Limonite

Hornblende

Bornite

Augite

Kaolinite

Quartz

Chalcopyrite

Topaz

Corundum

Sphalerite

Ulexite

Barium

**MY MINERAL IS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Task:**  You are to create a brochure about your mineral, its properties, and it uses.

**Steps:**

1. Fill out the notes page about your mineral using the following websites as resources. YOU MUST USE AT LEAST TWO!
* <http://www.mii.org>
* <http://webmineral.com>
* <http://mineral.galleries.com/default.htm>
* <http://minerals.usgs.gov/minerals/>
* <http://wikipedia.org>
* <http://www.minerals.net>
1. Make & Label your tri-fold brochure using plain white (or other plain paper)
	1. The front Should look like this if you lay it flat:

|  |  |  |
| --- | --- | --- |
| (INSIDE FLAP)MINERAL USES: | (BACK COVER) RESOURCESListing of Websites usedName & Class Hour | (FRONT COVER)Mineral nameMineral Picture |

* 1. The back should look like this if you lay it flat

|  |  |  |
| --- | --- | --- |
| (LEFT)MINERAL FACTS: | (MIDDLE)MINERAL GEOGRAPHY: | (RIGHT)HISTORICAL SIGNIFICANCE & SIMILAR MINERALS: |

1. Fill in your brochure using your notes
	1. Use bullet points, NOT whole sentences
	2. You can use more pictures as long as you still cover all information
	3. Below is an example mineral fact flap & Historical Significance flap for azurite

|  |
| --- |
| **MINERAL FACTS:*** Name: Azurite
* Chemical Composition:Cu3(CO3)2(OH)
* Mineral Group: Carbonates
* Color: Blue to very dark blue
* Luster: Vitreous or dull
* Transparency: Opaque, although translucent in thin splinters
* Cleavage/Fracture: 2,1 : 3,2 / conchoidal or splintery
* Hardness: 3.5-4
* Specific Gravity: 3.7-3.9
* Streak: Light Blue
* Other Unique Characteristics: bubbles in hydrochloric acid, dissolves in ammonia
 |

|  |
| --- |
| **HISTORICAL SIGNFICANCE** * It helped the element nickel get its name
* It was known in Germany as the “copper demon”

**SIMILAR MINERALS*** Linarite - Cyantrichite
* Licronite - Cornetite
* Connelite - Lazurite
 |

1. Add color/any hand draw pictures/etc

THIS ASSIGNMENT IS WORTH 65 points

* Front & Back Cover: 10 points
* All other flaps: 10 points each, 40 points total
* Neatness: 5 points
* Color: 5 points

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**NOTES PAGE!**

*Mineral Facts:*

* Mineral Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Mineral Composition\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Mineral Group\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Color\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Luster\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Transparency\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Cleavage/Fracture\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Hardness\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Specific Gravity\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Streak\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Other Unique characteristics: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Mineral Geography:*

* These are locations in which the mineral can be found: (LIST ALL):

*Mineral Historical Signficance & Similar Minerals*

* In early times, the mineral was used for this or had this purpose: (Wikipedia can be good here)
* List the similar minerals (use [www.minerals.net](http://www.minerals.net))

*Mineral Uses:*

* List at least 5 uses of the mineral (should be more if you can)