**Mineral Identification Project**

To better understand and identify minerals, you will create a brochure that illustrates information about minerals. The brochure will examine what a mineral is composed of, how a mineral is formed, where a mineral can be located, how a mineral is used commercially, and general facts about a mineral. You will work alone on this project. This project is worth 100 points and will be due in two weeks. Grades will be based on content, quality, and appearance. The following criteria must be fulfilled :

**1. Choose one of the following minerals to research.**

Aluminum

Apatite

Aragonite

Arsenic

Asbestos

Barite

Bismuth

Biotite

Calcite

Chalcopyrite

Chromium

Cinnabar

Cobalt

Copper

Diamond

Dolomite

Feldspar

Fluorite

Galena

Gold

Graphite

Gypsum

Halite

Iron Ore

Lead

Magnesium

Magnetite

Malachite

Manganese

Mercury

Muscovite

Nickel

Olivine

Opal

Pyrite

Quartz

Silver

Sulfur

Talc

Tin

Titanium

Zinc

**2. Create the following panels :**

**Panel #1 : Title Of Brochure** (10 Points)

- Include your title, name, date, and picture

**Panel #2 : Physical Properties of the mineral.** (12 points)

1. Appearance – *Color of the mineral*

2. Hardness – *1 to 10 on the Moh’s Hardness Scale*

3. Luster – *Metallic, Adamantine, Resinous, Vitreous, Pearly, Greasy, Silky, Dull, Earthy*

4. Streak – *Color of mineral powder*

5. Cleavage / Fracture – *Perfect, Conchoidal, Jagged, Splintery, Uneven*

- Include a picture

**Panel #3** : **Determine the Mineral Characteristics of the mineral.** (12 points)

1. Crystal Form – *Cubic, Hexagonal, Monoclinic, Orthorhombic, Tetragonal, Triclinic*

2. Chemical Composition - *Elemental or Compound*

3. Specific Gravity - *How many times more the mineral weighs compared to water*

4. Tenacity – *How easy the mineral breaks (elastic, ductile, malleable, flexible, etc.)*

5. Transparency – *Transparent, Transluscent, Opaque*

- Include a picture

**Panel #4** : **Identify 10 different Mineral Locations.** (12 Points)

- List 10 locations where the mineral can be extracted.

- Include a picture

**Panel #5 : Identify 10 different Commercial Uses of the mineral.** (12 Points)

- List 10 commercial uses of the mineral.

- Include a picture

**Panel #6** : **Identify 10 different** **Mineral Facts**. (12 Points)

- List 10 facts about the mineral you chose to research.

- Include a picture.

**Appearance** (20 Points)

: Do not use paragraphs, (Use dot-jots – except for facts)

: Fill up the page (avoid “dead space”)

: Put a heading on each panel (Symptoms, Help Section, etc.)

**3. Hints For Neatness** (10 points)

- Use subheadings for each category on your brochure.

- Bullet information (DO NOT use large paragraphs of information)

- Copied Internet pages will result in 0 points