

2014 Rocks and Mineral Question Marathon Compilation

Answers after each slide

Identify



Identify

Sandstone



Identify



Identify

Dolomite



Identify



Identify

Epidote



ID and Hardness & Mineral Group



ID and Hardness & Mineral Group

Selenite Gypsum; Hardness of 2; Belongs to the sulfate group



Identify



Identify

Opal



Identify

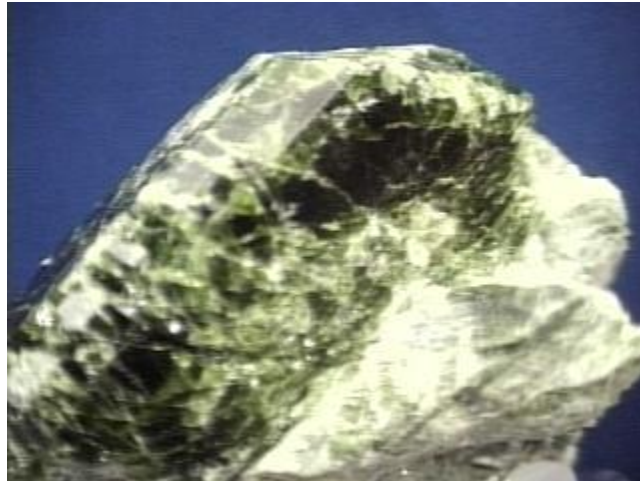


Identify

Topaz

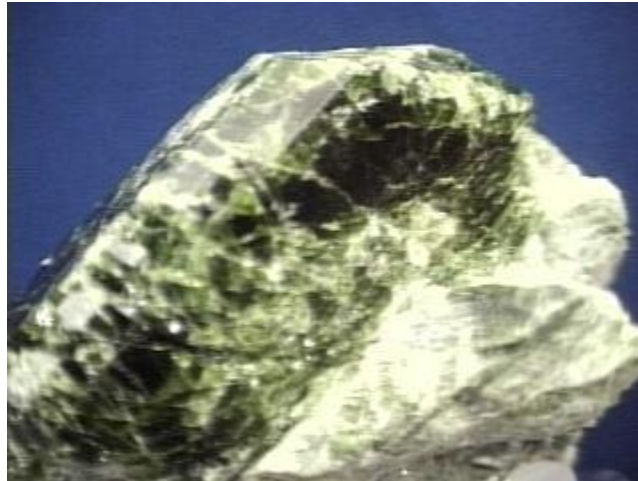


Identify

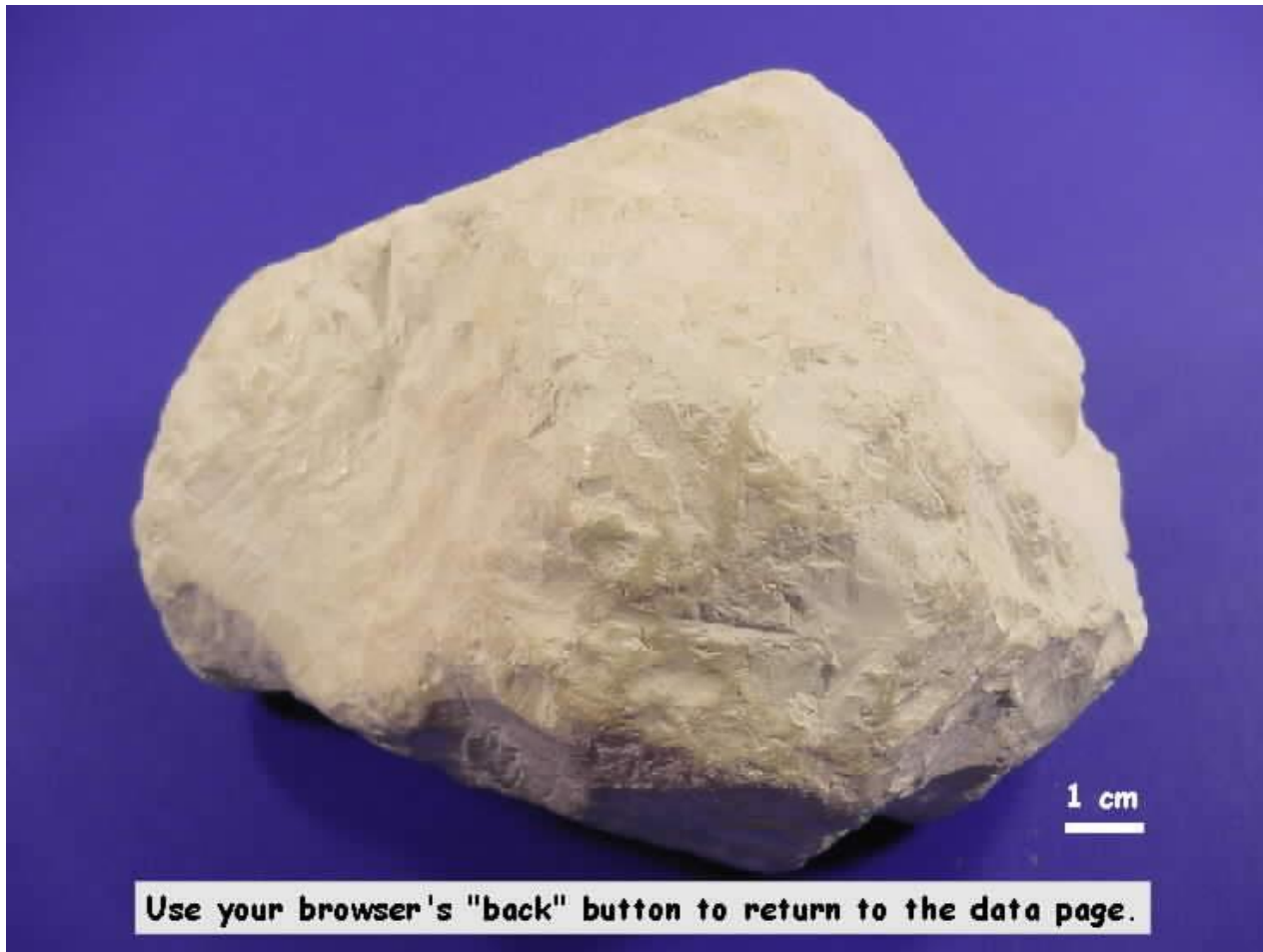


Identify

Epidote

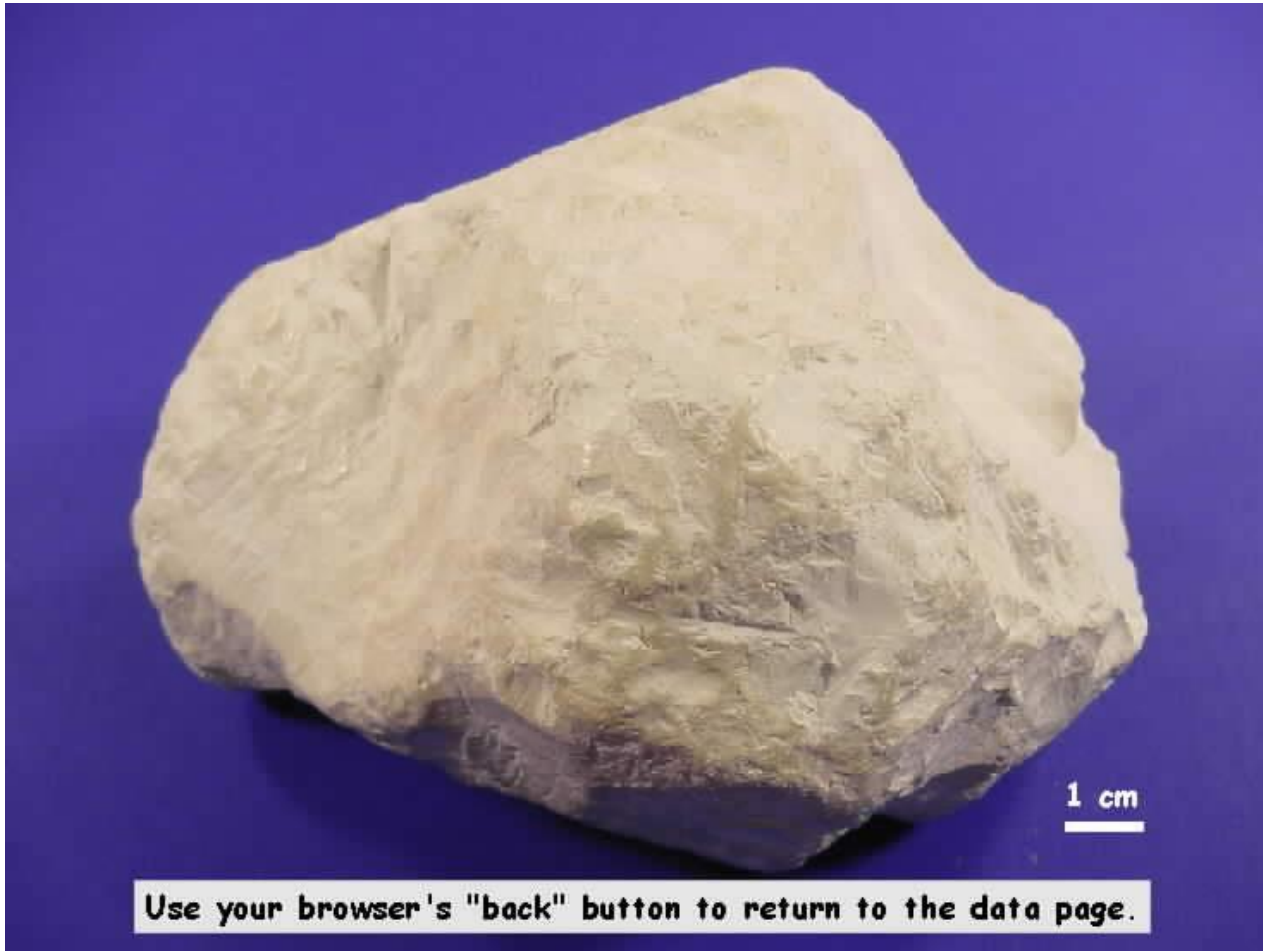


Identify



Identify

Kaolinite



Identify, Hardness, & Chemical Composition

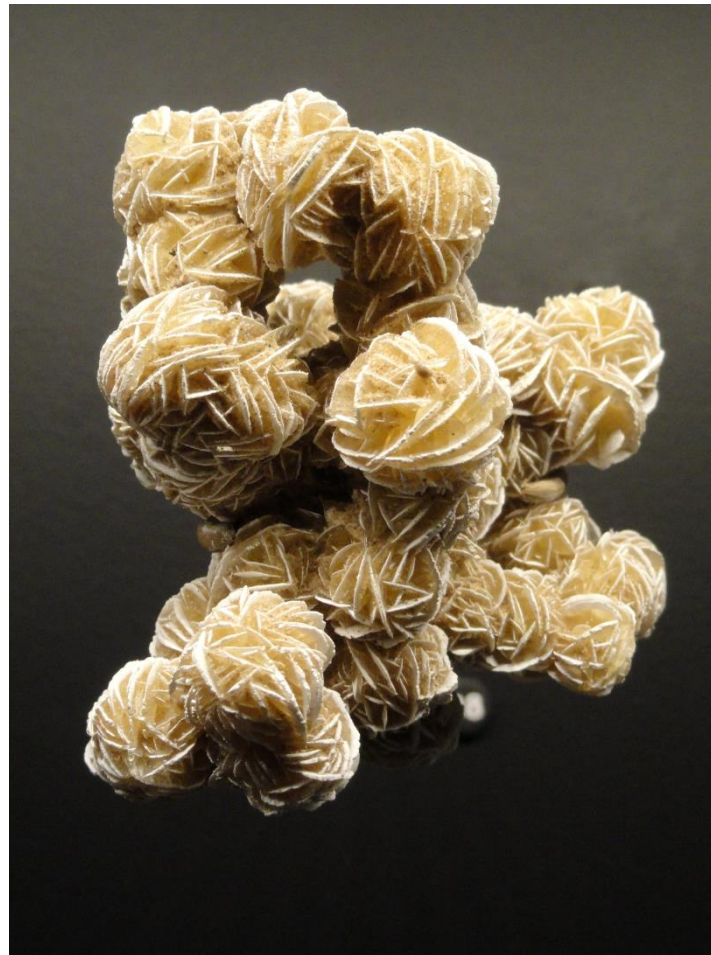


Identify, Hardness, & Chemical Composition

Calcite; Hardness of 3; CaCO_3



Identify & What is this structure called?



Identify & What is this structure called?

Gypsum; Desert Roses



Identify, Chemical Composition, & Mineral Group



Identify, Chemical Composition, & Mineral Group

Hematite; Fe_2O_3 ; Oxides



Identify



Identify

Sulfur



Identify, Chemical Composition, & Hardness



Identify, Chemical Composition, & Hardness

Azurite; $\text{Cu}_3(\text{CO}_3)_2(\text{OH})_2$; 3.5-4



Identify the rock this formation is made of



Identify the rock this formation is
made of

Basalt (columnar)



Identify



Identify

Arkose Sandstone



Identify & Hardness



Identify & Hardness

Tremolite; Hardness of 5-6



Identify & Enviroment



Identify & Environment

Celestite; Forms in hydrothermal veins & in
sedimentary rocks



Identify



Identify

Halite



Identify



Identify

Sphalerite



Identify



Identify

Azurite



Identify



Identify

Epidote



Identify



Identify

Almandine Garnet



Identify & Hardness



Identify & Hardness

Satin-Spar; Hardness of 2



Identify



Identify

Barite



Identify



Identify

Sodalite



Identify



Identify

Apatite

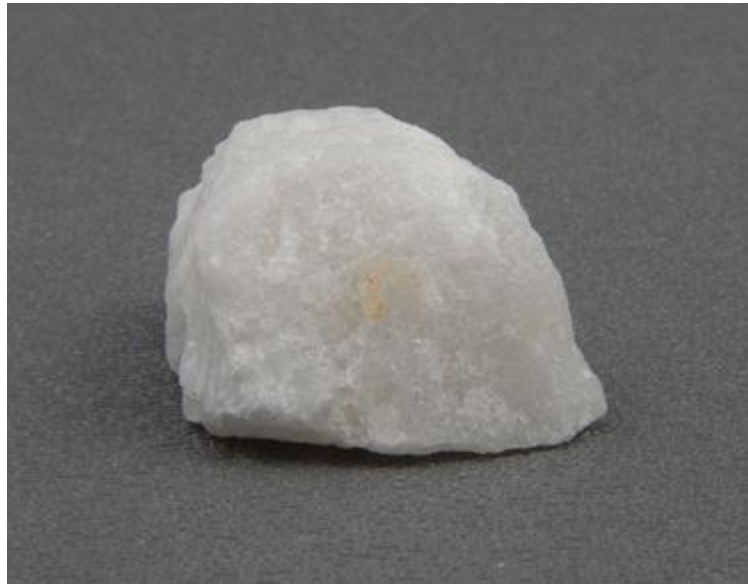


Identify



Identify

Quartz



Identify



Identify

Barite

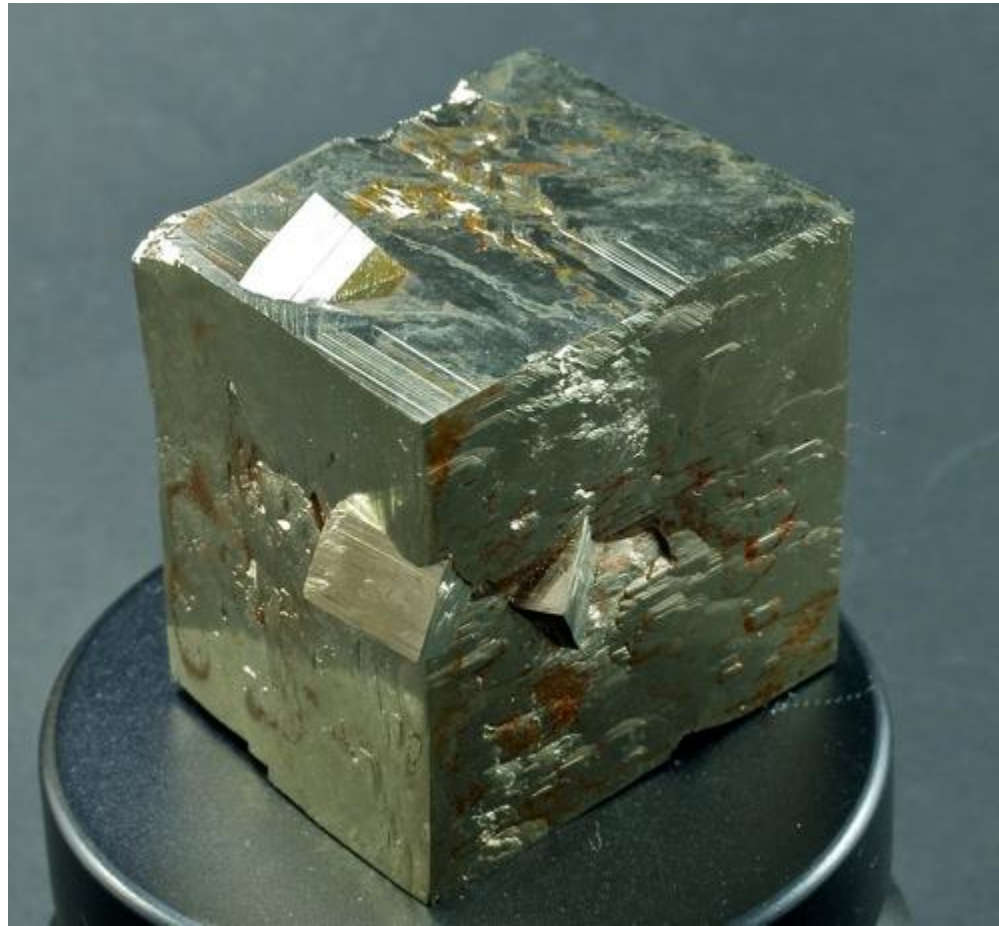


Identify



Identify

Pyrite



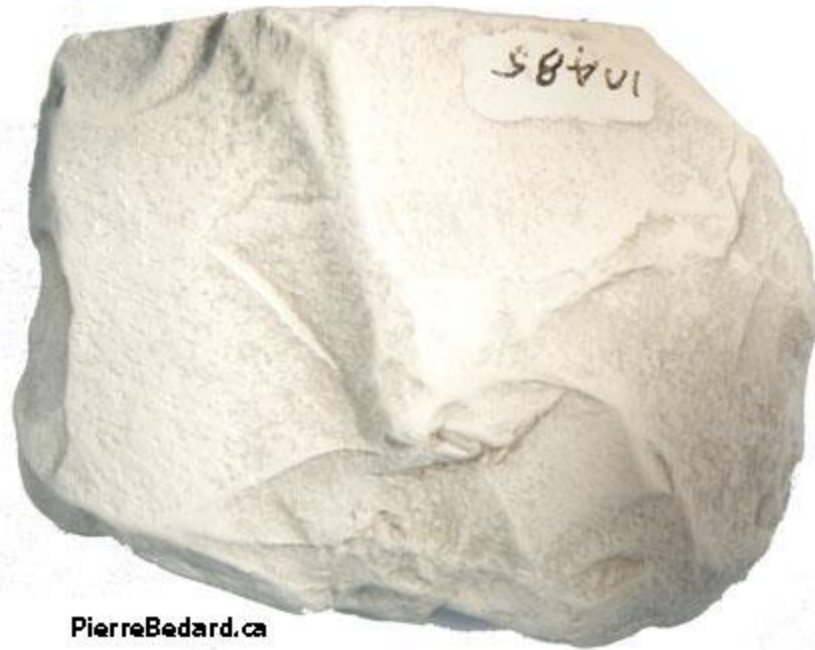
Identify



PierreBedard.ca

Identify

Kaolinite



PierreBedard.ca

Identify



Identify

Orthoclase Feldspar



Identify

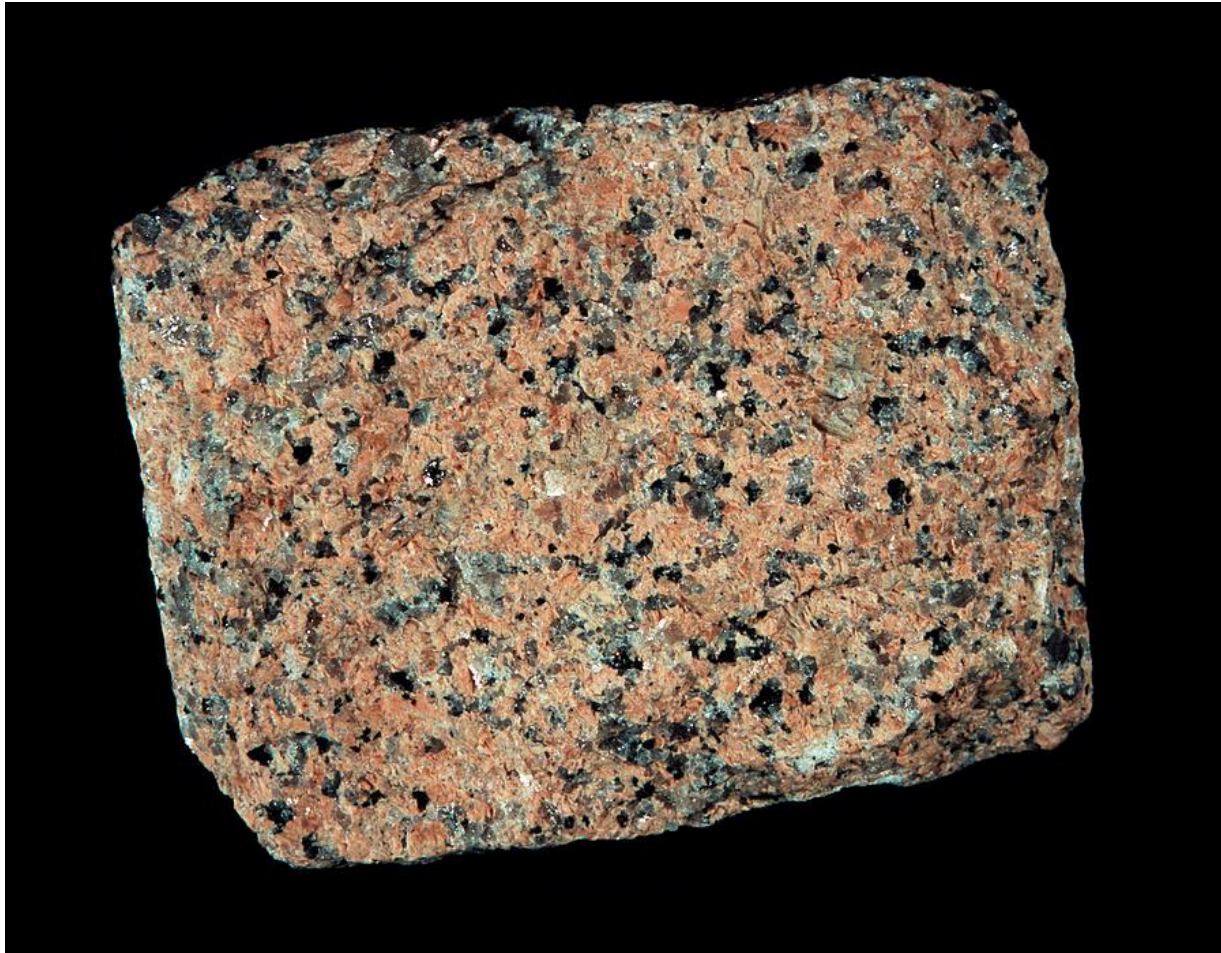


Identify

Tremolite

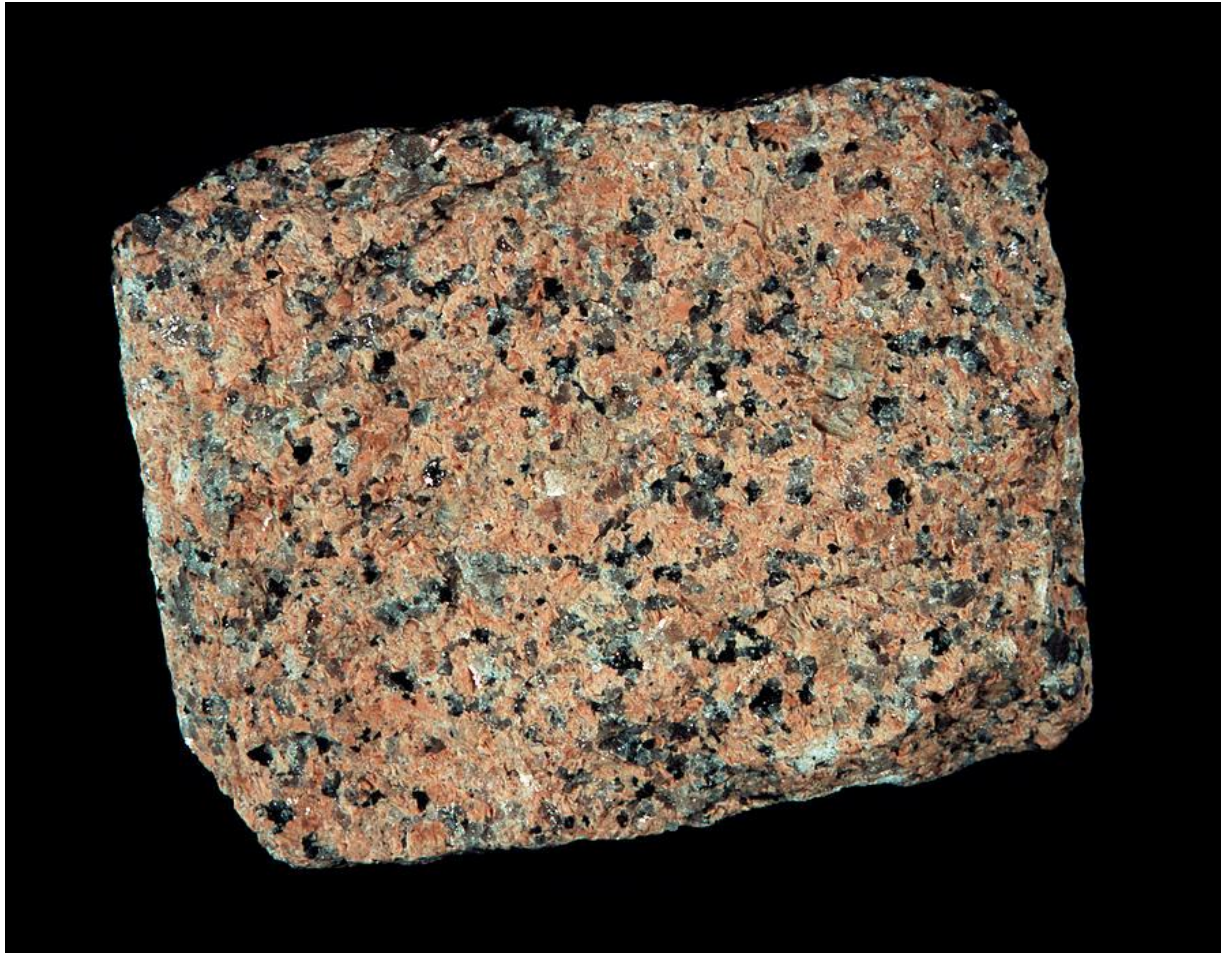


Identify



Identify

Granite



Identify



Identify

Augite



Identify

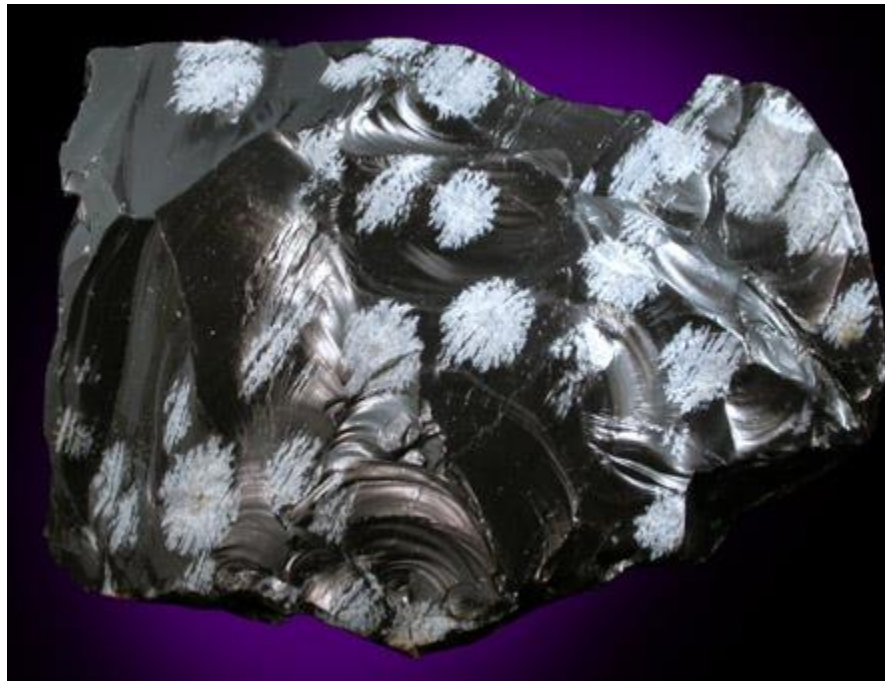


Identify

Calcite

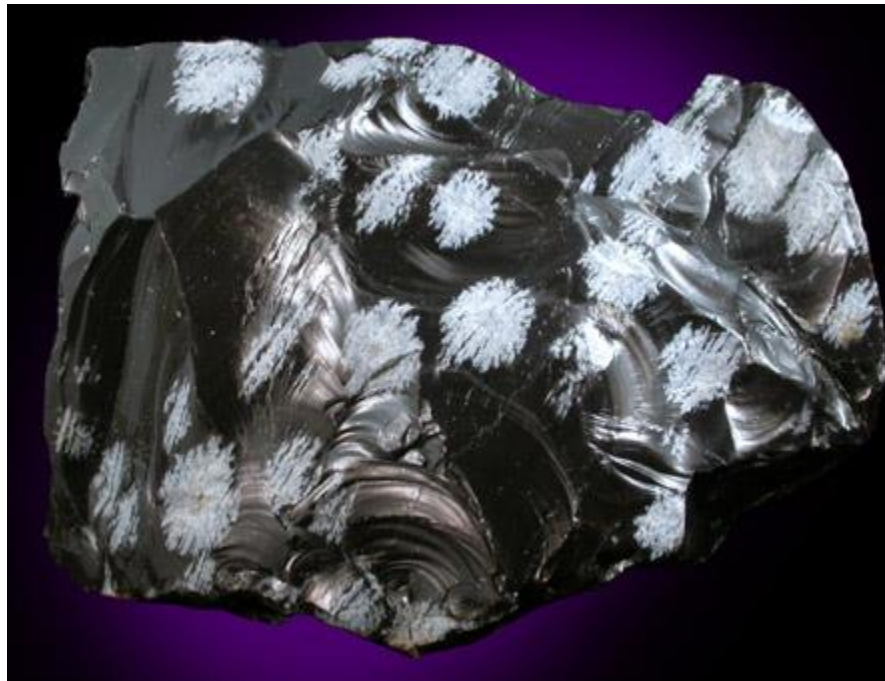


Identify & What are the white things



Identify & What are the white things

Snowflake Obsidian; Crystobalite
“Snowflakes”



Identify



Identify

Muscovite



Identify



Identify

Dolomite



Identify



Identify

Fluorite



Identify All 3 Minerals in this Specimen



Identify All 3 Minerals in this Specimen

Sphalerite, Chalcopyrite, Dolomite



Identify



Identify

Marble



Identify



Identify

Chalcedony Quartz



Identify



Identify

Gabbro



Identify



Identify

Calcite



Identify



Identify

Sphalerite



Identify



Identify

Limonite



Identify All 3 Minerals in this Specimen



Identify All 3 Minerals in this Specimen

Chalcopyrite, Quartz, Calcite



Identify & Connection to Calcite



Identify & Connection to Calcite

Aragonite; Polymorph of calcite



Identify



Identify

Gabbro



Identify



Identify

Corundum



Identify



Identify

Augite

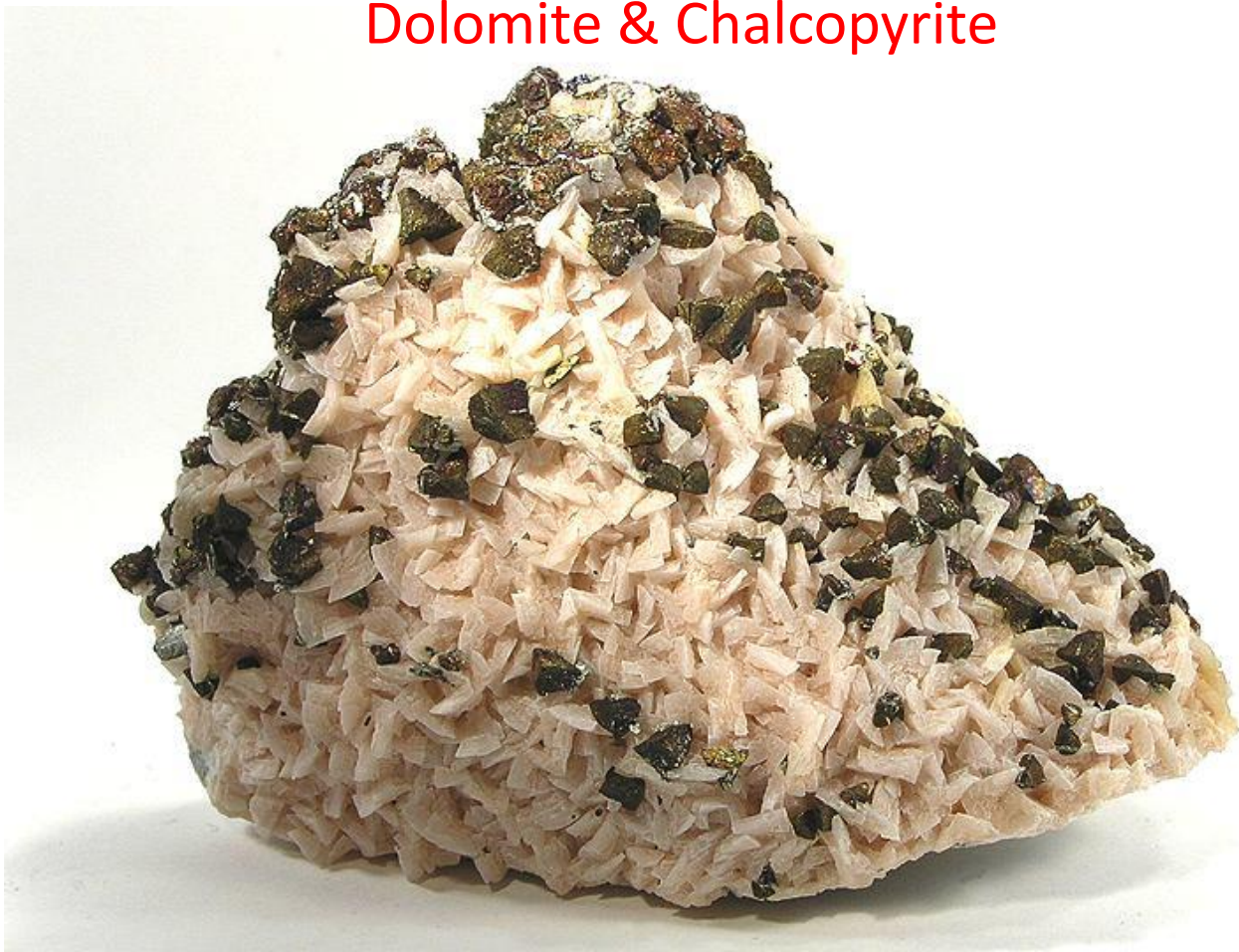


Identify Both Minerals



Identify Both Minerals

Dolomite & Chalcopyrite



Identify

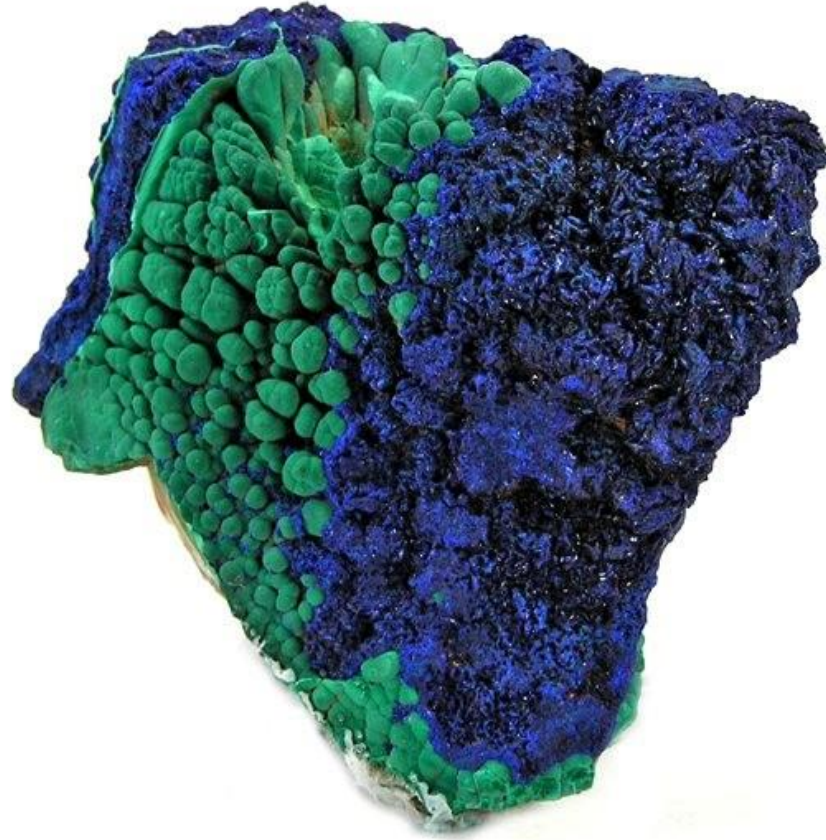


Identify

Chalcopyrite

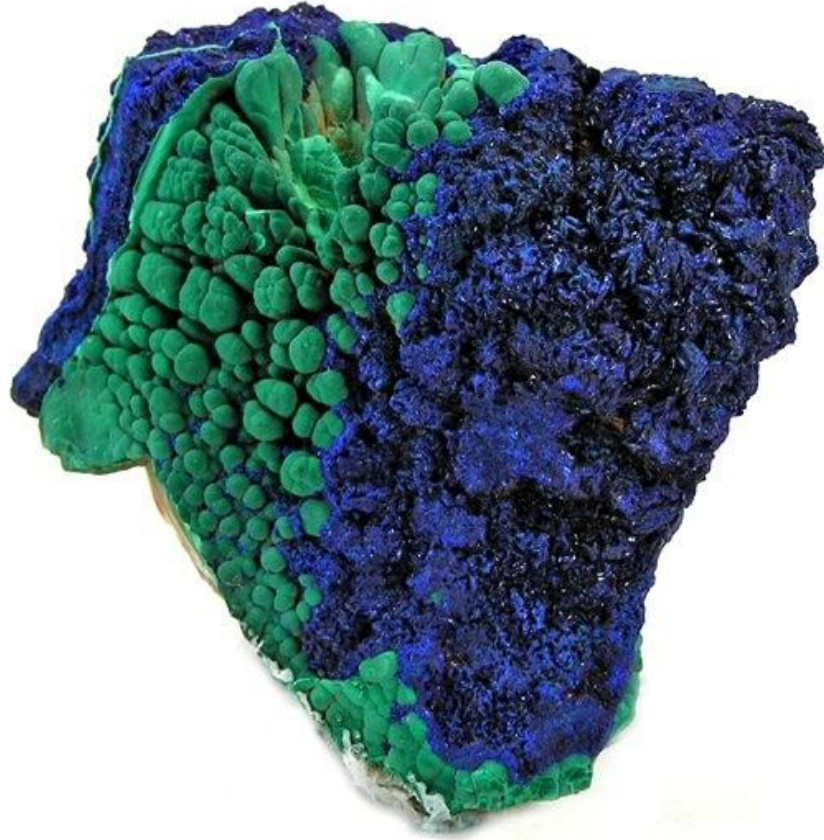


Identify Both Minerals & Relationship



Identify Both Minerals & Relationship

Azurite & Malachite; pseudomorphs



Identify All 3 Minerals of this Specimen



Identify All 3 Minerals of this Specimen

Galena, Fluorite, & Calcite



Identify



Identify

Apatite



Identify & Chemical Formula

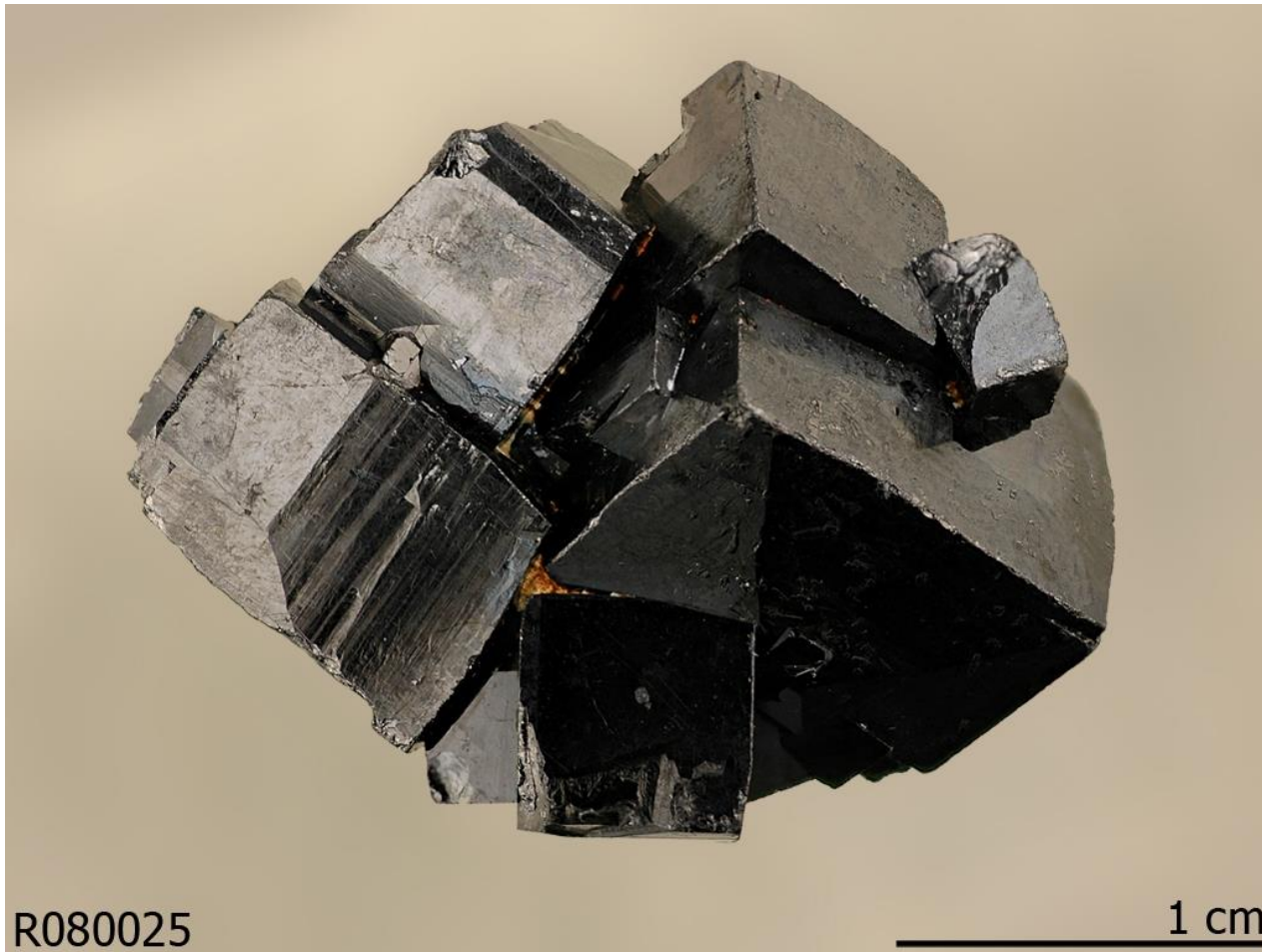


Identify & Chemical Formula

Hematite; Fe_2O_3

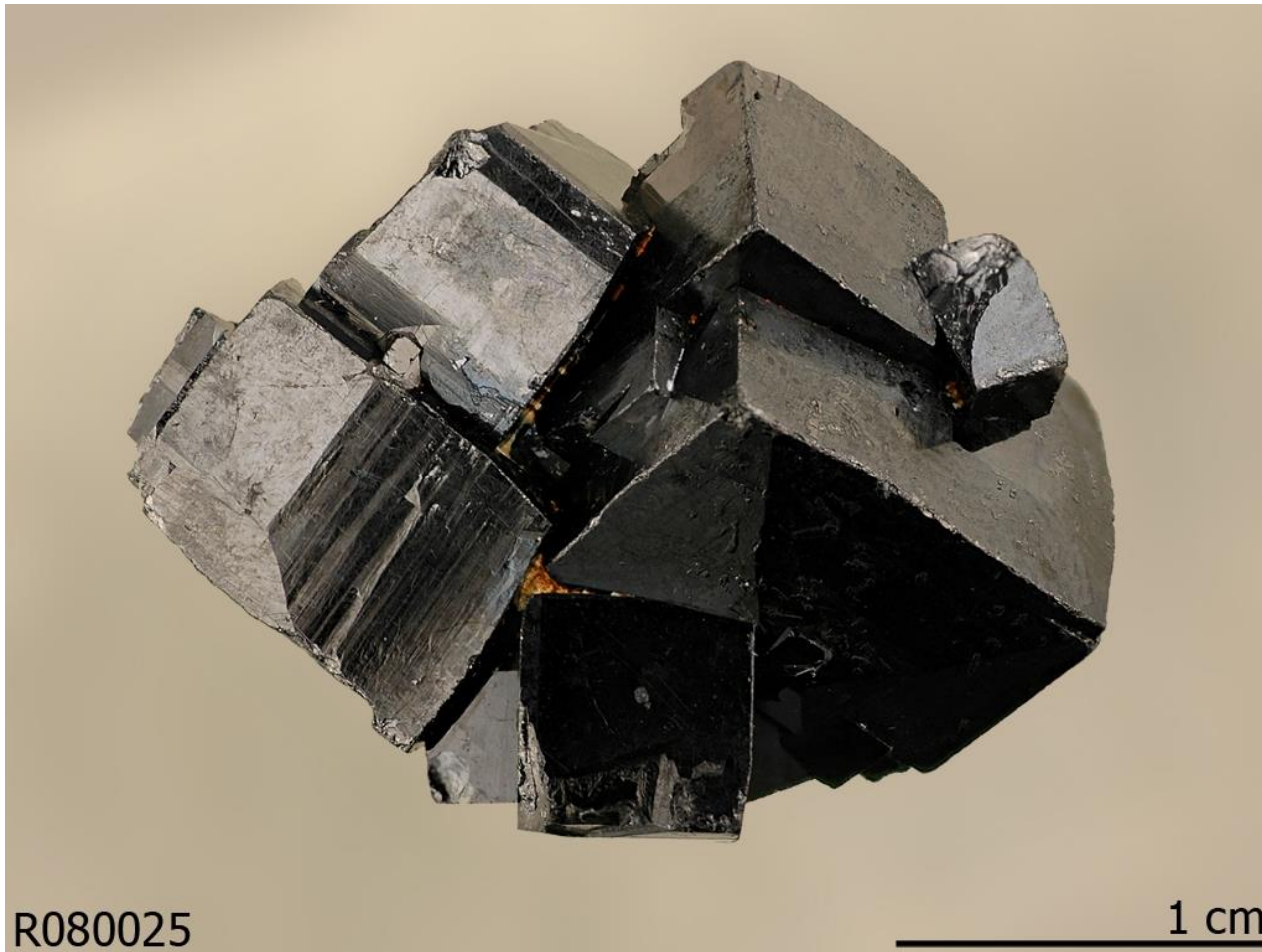


Identify



Identify

Magnetite; Fe_3O_4



Identify



Identify

Bauxite



Non-Picture Questions

- What is piezoelectricity? What are two examples of minerals that exhibit it?
- What is the nickname of staurolite?
- Is talc harder/softer than graphite?
- What are the 8 types of quartz?
- Rank the 3 types of coal from highest to lowest carbon content.
- What are all the minerals listed on the moh's hardness scale and what are their hardnesses?
- What is drusy crystal habit?

Non-Picture Questions: **Answers**

- Piezoelectricity is electrical current passing through a mineral when squeezed; tourmaline & quartz
- Fairy stones
- Softer
- Agate/Onyx, Amethyst, Chalcedony, Citrine, Crystal, Jasper, Milky, & Rose
- Anthracite, Bituminous, Lignite
- 1. Talc 2. Gypsum 3. Calcite 4. Fluorite 5. Apatite 6. Orthoclase 7. Quartz 8. Topaz 9. Corundum 10. Diamond
- Crystals forming in a gap in surface of rock

Good Luck to All!

Reminder: This was not a representation of a test, but rather quick practice.