

UNIT	ACTIVITY
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*Mystery Mineral Practice*

Tomorrow we will begin our mystery mineral lab. You will have to identify 3 unknown minerals based on the mineral identification tests. Below are practice samples to help you prepare for the lab. For each sample, answer the questions provided. The Mohs scale is on page 122. Using pages 196-198 in your textbook, find the name of the mineral based on the clues. For mineral group, look in your notes!

**Sample Mineral A**

Luster: Metallic      Streak: Green-black      Color: Golden

Hardness: Same hardness as fluorite. Hardness # is \_\_\_\_\_.

Density: Volume is  $35\text{cm}^3$ ; Mass is 143.5g. Density is \_\_\_\_\_.

C&F: Rough surface, jagged edges. Mineral has \_\_\_\_\_.

Mineral Name: \_\_\_\_\_.

**Sample Mineral B**

Luster: Metallic      Streak: Black      Color: Black

Hardness: Scratches talc but scratched by gypsum. Hardness # is \_\_\_\_\_.

Density: Volume is  $15\text{cm}^3$ ; Mass is 34.5g. Density is \_\_\_\_\_.

C&F: Smooth edges, weak bonds between atoms. Mineral has \_\_\_\_\_.

Mineral Name: \_\_\_\_\_.

**Sample Mineral C**

Luster: Glassy      Streak: \_\_\_\_\_      Color: Blue

Hardness: Scratched by feldspar but not fluorite. Hardness # is \_\_\_\_\_.

Density: Volume is  $17\text{cm}^3$ ; Mass is 52.7g. Density is \_\_\_\_\_.

C&F: Conchoidal. Mineral has \_\_\_\_\_.

Mineral Name: \_\_\_\_\_.

Name \_\_\_\_\_

Period \_\_\_\_\_

Date \_\_\_\_\_

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**Sample Mineral D**

Luster: Glassy      Streak: \_\_\_\_\_.      Color: \_\_\_\_\_.

Hardness: Same as ruby. Hardness # is \_\_\_\_\_.

Density: Volume is  $4\text{cm}^3$ ; Mass is 16g. Density is \_\_\_\_\_.

C&F: Atoms are all strongly bonded. Mineral has \_\_\_\_\_.

Mineral Name: \_\_\_\_\_. Mineral Group: \_\_\_\_\_.

**Sample Mineral E**

Luster: Glassy      Streak: \_\_\_\_\_.      Color: \_\_\_\_\_.

Hardness: Same as Garnet. Hardness # is \_\_\_\_\_.

Density: Volume is  $19\text{cm}^3$ ; Mass is 50g. Density is \_\_\_\_\_.

C&F: Curved breaks. Mineral has \_\_\_\_\_.

Mineral Name: \_\_\_\_\_. Mineral Group: \_\_\_\_\_.

**Sample Mineral F**

Luster: Glassy      Streak: \_\_\_\_\_.      Color: \_\_\_\_\_.

Hardness: Softer than fluorite, harder than copper. Hardness # is \_\_\_\_\_.

Density: Volume is  $9.6\text{cm}^3$ ; Mass is 27g. Density is \_\_\_\_\_.

C&F: Breaks into rhombohedrons. Mineral has \_\_\_\_\_.

Mineral Name: \_\_\_\_\_. Mineral Group: \_\_\_\_\_.

**Sample Mineral G**

Luster: Metallic      Streak: \_\_\_\_\_.      Color: \_\_\_\_\_.

Hardness: Copper can scratch it, your fingernail can't. Hardness # is \_\_\_\_\_.

Density: Volume is  $12\text{cm}^3$ ; Mass is 233g. Density is \_\_\_\_\_.

C&F: Mineral is metal. Mineral has \_\_\_\_\_.

Mineral Name: \_\_\_\_\_.