

# The Study of Minerals

## The Study of Minerals

Name \_\_\_\_\_

Date \_\_\_\_\_

Course/Section \_\_\_\_\_

Due Date \_\_\_\_\_

1. Name the physical property (hardness, color, streak, etc.) described by each of the following statements.

DESCRIPTION PHYSICAL PROPERTY

Breaks along smooth planes: \_\_\_\_\_

Scratches glass: \_\_\_\_\_

Shines like a metal: \_\_\_\_\_

Scratching produces a red powder: \_\_\_\_\_

Looks like broken glass: \_\_\_\_\_

2. What term is used to describe the shape of a mineral that has three directions of cleavage that intersect at 90-degree angles?

3. Describe the cleavage of the minerals listed below. Include the number of directions and degrees of cleavage angles (if appropriate).

MINERAL CLEAVAGE

Muscovite: \_\_\_\_\_

Calcite: \_\_\_\_\_

Halite: \_\_\_\_\_

Feldspar: \_\_\_\_\_

4. What physical feature most distinguishes biotite mica from muscovite mica?

5. Name a mineral that exhibits the physical properties listed below. (Use the photos in this exercise, if needed.)

PROPERTY MINERAL

One direction of cleavage: \_\_\_\_\_

Striations: \_\_\_\_\_

Multiple colors: \_\_\_\_\_

Cubic cleavage: \_\_\_\_\_

Nonmetallic, vitreous luster: \_\_\_\_\_

Fracture: \_\_\_\_\_

Metallic luster: \_\_\_\_\_

6. Figure 1.32 illustrates the common crystal form of the mineral fluorite and the characteristic shape of a cleaved sample of fluorite. Identify each specimen (A or B) next to its appropriate description below.

Crystal form of fluorite: \_\_\_\_\_

Cleavage specimen of fluorite: \_\_\_\_\_



Figure 1.32 Comparing crystal shape and cleavage.

7. Refer to the photo in Figure 1.33 to complete the following.

a. Describe the crystal form (habit) of this specimen.

b. What term is applied to the lines on this sample?

c. Based on what you can determine from this photo, use the mineral identification key (see Figure 1.24) to identify this mineral.



Figure 1.33 Visually identifying mineral properties. (Photo by Dennis Tasa)

# Minerals Study Guide Answers

**M Mark**



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