

The Study of Minerals

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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)

Answers To The Study Of Minerals Pearson

Michael Hoelscher



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