

ERTH101 Lab 4

Part 1 of 2 - Activity 4.3 What are Rocks Made Of?

Question 1 of 82 Points

A. Check all of the following phrases that accurately describe(s) 'intergrown mineral texture'.

☐

A. held together by a cement

☐

B. broken away from the same piece of precursor rock then recombined in a magma

☒

C. characterized by mineral grains that interlock

☐

D. brought together in a sedimentary process such as weathering

☒

E. formed by precipitation from a fluid or by co-crystallization during metamorphism

☒

F. may be mechanically quite strong, in comparison with other rock textures



Question 2 of 81 Points

B. Sample #2 is made of glass.

- ☐ True
- ☒ False

[Reset Selection](#)

Question 3 of 81 Points

B. Which term describes sample #3?

- ☐ A. clastic (detrital) grains
- ☐ B. fossils
- ☐ C. glass
- ☐ D. intergrown mineral grains

[Reset Selection](#)

Question 4 of 82 Points

B. Check all the term(s) that do NOT describe sample #5.

☐

A. intergrown mineral grains

☒

B. fossils

☒

C. clastic (detrital) grains

☒

D. sand

☒

E. gravel

☒

F. glass

☒

G. silt & clay

Question 5 of 82 Points

B. Check all the term(s) that do NOT describe sample #6.

☒

A. glass

☐

B. fossils (bioclasts)

☐

C. clastic (detrital) grains



D. gravel



E. intergrown mineral grains

Question 6 of 81 Points

B. The particles in sample #7 are all about the same size.



True



False

[Reset Selection](#)

Question 7 of 81 Points

B. Select the phrase that best describes this texture.



A. clastic (detrital) grains



B. intergrown mineral grains

[Reset Selection](#)

Question 8 of 81 Points

This rock is clastic and the particles are extremely small.

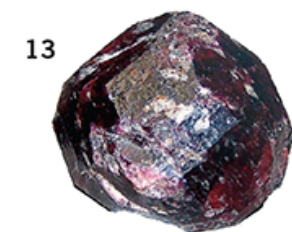
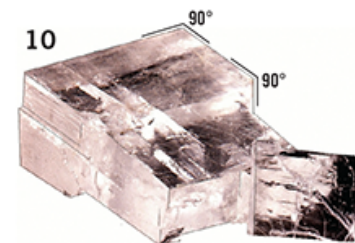
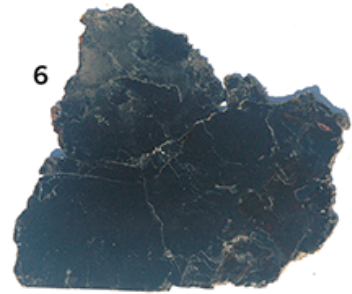
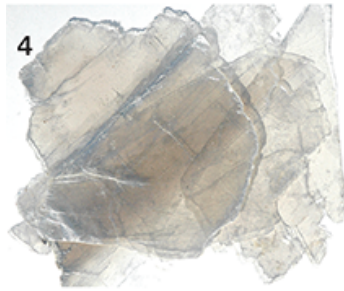


True



False

Part 2 of 2 - Activity 4.4 Rock-Forming Minerals



Question 1 of 73 Points

A. Specimens 1, 11, and 12 are commonly confused green minerals in igneous rocks: hornblende, augite, and olivine, though not necessarily in that order. Each of these minerals have characteristics that distinguish them from each other that are readily apparent in the textbook images. Fill in the blanks below with the correct mineral identifications

Specimen 1 is

Specimen 11 is

Specimen 12 is

Question 2 of 73 Points

A. Specimens 4, 5, and 6 are common sheet minerals typically identified by their color: chlorite, muscovite, and biotite, though not necessarily in that order. Fill in the blanks below with the correct mineral identifications.

Specimen 4 is

Specimen 5 is

Specimen 6 is

Question 3 of 71 Points

A. Which of the following specimens would effervesce in HCl?

• ☐ A.
15

• ☐ B.
10

• ☐ C.
8

• ☒ D.
14

[Reset Selection](#)

Question 4 of 71 Points

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A. Both Specimens 8 and 9 are kinds of feldspar. Input the specimen number of the one that can be identified by exsolution lamellae.

Specimen can be identified by exsolution lamellae

Question 5 of 71 Points

Specimen 13 is commonly found in igneous rocks

- ☐ True
- ☒ False

[Reset Selection](#)

Question 6 of 71 Points

Specimen 7 is commonly found in sedimentary rocks

- ☒ True
- ☐ False

[Reset Selection](#)

Question 7 of 71 Points

[Click to see additional instructions](#)

Fill in the blank with the correct specimen number

Between specimens 10 and 15, the specimen that is harder is .