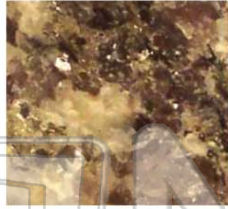




Name _____ Class _____ Date _____

1 The photograph below shows actual crystal sizes in a light-colored **igneous rock** that contains several minerals, including **potassium feldspar, quartz, and biotite mica**.

The rock should be identified as



- A granite
- B gabbro
- C basalt
- D rhyolite

3 Which rock is **foliated**, shows **mineral alignment** but **not banding**, and contains medium-sized grains of **quartz and pyroxene**?



- A phyllite
- B schist
- C gneiss

2 The image below shows a rock with **deformed structure** and **intergrown crystals**.

The rock was probably **formed by**



- A sediments that were deposited on the ocean floor
- B heat and pressure that changed a preexisting rock
- C volcanic lava that cooled on Earth's surface
- D a meteor impact on Earth's surface

4 Which rock most probably formed directly from **lava cooling quickly at Earth's surface**?

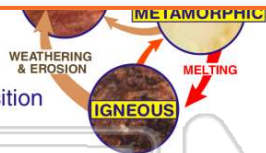
- A pebbles cemented in sand matrix
- B gas pockets
- C mica crystals in foliated layers
- D large



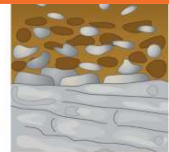
PREVIEW

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- A grain size
- B method of formation
- C mineral composition



- A erosion by glaciers
- B erosion by running water
- C capillarity and human activity
- D weathering and biological activity



9 Which type of rock most likely contains **fossils**?

- A scoria
- B gabbro
- C schist
- D shale



10 Which physical characteristic best describes the rock **phyllite**?

- A glassy texture with gas pockets
- B clastic texture with angular fragments
- C bioclastic texture with cemented shell fragments
- D foliated texture with microscopic mica crystals

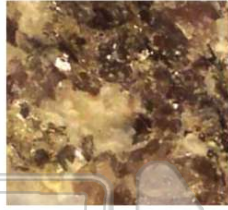


ANSWER KEY

The photograph below shows actual crystal sizes in a light-colored **igneous rock** that contains several minerals, including **potassium feldspar, quartz, and biotite mica.**

The rock should be identified as

- A granite
- B gabbro
- C basalt
- D rhyolite



(a)

The image below shows a rock with **deformed structure** and **intergrown crystals.**

The rock was probably formed by

- A sediments that were deposited on the ocean floor
- B heat and pressure that changed a preexisting rock
- C volcanic lava that cooled on Earth's surface
- D a meteor impact on Earth's surface



(b)

Which rock is **foliated**, shows **mineral alignment** but **not banding**, and contains medium-sized grains of **quartz and pyroxene**?

- A phyllite
- B schist
- C gneiss
- D quartzite



(b)

Which rock most probably formed directly from **lava cooling quickly at Earth's surface**?

- A pebbles cemented in sand matrix
- B gas pockets in glass
- C mica crystals in foliated layers
- D large intergrown crystals



(b)



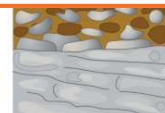
PREVIEW

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- C method of formation
- D mineral composition



- B erosion by running water
- C capillarity and human activity
- D weathering and biological activity



Which type of rock most likely contains **fossils**?

- A scoria
- B gabbro
- C schist
- D shale



(d)

Which physical characteristic best describes the rock **phyllite**?

- A glassy texture with gas pockets
- B clastic texture with angular fragments
- C bioclastic texture with cemented shell fragments
- D foliated texture with microscopic mica crystals

(d)