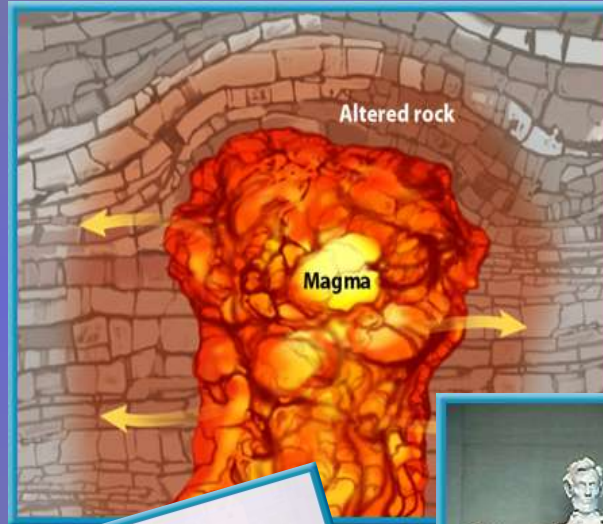
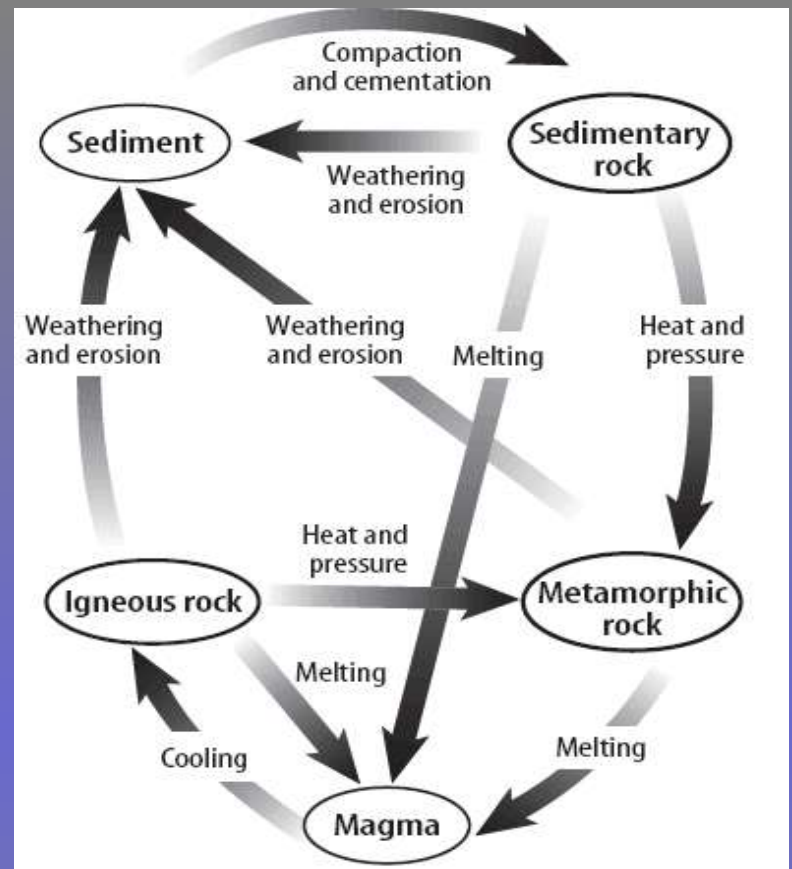


ROCKS



#1

What forms
when rocks are
weathered and
eroded?



- a. metamorphic rock
- b. sedimentary rock
- c. igneous rock
- d. sediment

#2 Which of the following processes is NOT part of the rock cycle?

- **a. solidification**
- **b. chiseling**
- **c. erosion**
- **d. metamorphism**

Which statement accurately describes the process of metamorphism?

#3

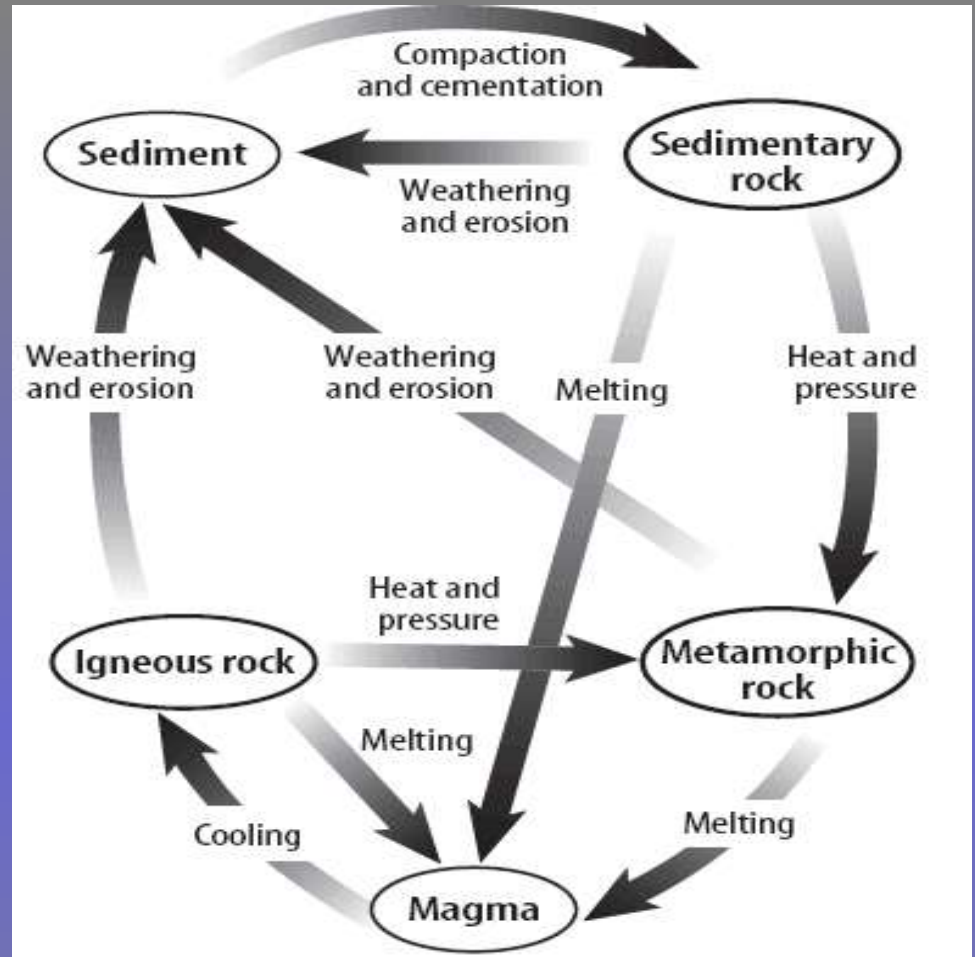
- a. Metamorphism occurs only in active volcanoes
- b. Erosion is the cause of all metamorphism
- c. Metamorphism is the change that occurs in species over time
- d. Metamorphism is the changing of one type of rock into another as a result of heat & pressure

#4 The diagram is a geologic cross-section of an area exposing sedimentary rock layers. Using the picture, which rock is the oldest?



- a. A
- b. F
- c. C
- d. E

#5 Which process in the rock cycle causes magma to form?



- a. erosion
- b. melting

- c. cooling
- d. weathering

#6

What do igneous rocks form from?

- a. gravel
- b. magma
- c. sediments
- d. mud

#7 Which type of rock can weather and wear away to form sediment?

- **a. sedimentary rock**
- **b. igneous rock**
- **c. metamorphic rock**
- **d. all 3 types of rock**

Slate belongs to a group of rocks that #8 have mineral grains lined up in parallel layers. According to this definition, which of these is slate?

• a.



• c.



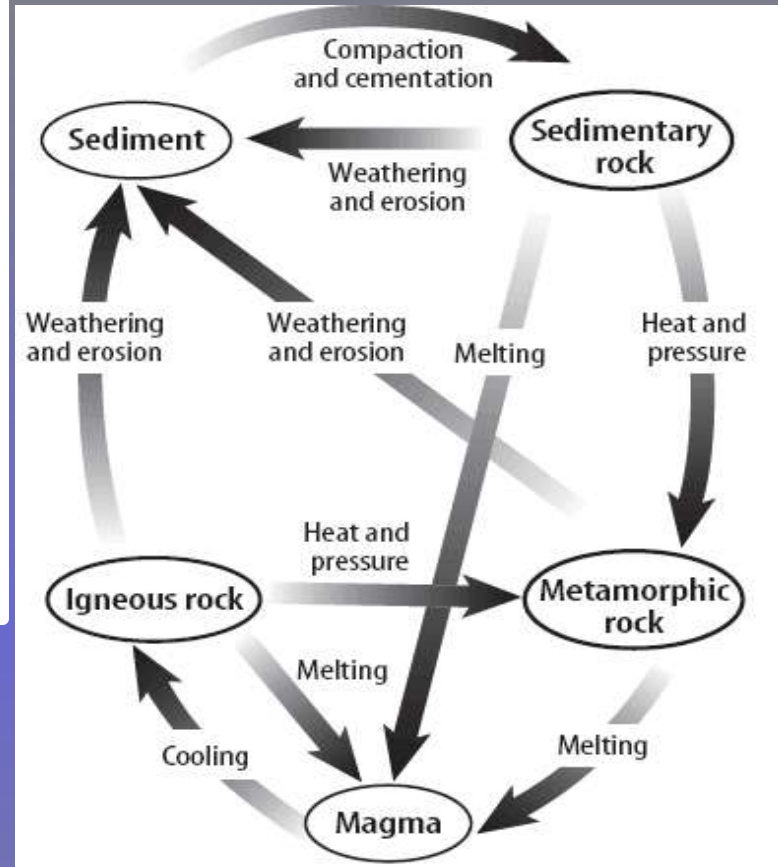
• b.



• d.



#9 Which type of rock forms because of high heat and pressure without melting?



- a. intrusive rock
- b. sedimentary rock
- c. igneous rock
- d. metamorphic rock

**Light-colored igneous rock
#10 generally has a _____
composition.**

- a. nonfoliated
- b. foliated
- c. basaltic
- d. granitic

#11

Chemical sedimentary rock forms when

- a. sand grains are cemented
- b. magma cools and solidifies
- c. minerals crystallize from a solution
- d. minerals are twisted into a new arrangement

#12 The size of crystals in igneous rock can be determined by how fast the magma cools and solidifies. The faster the magma cools, the smaller the crystals. Which sample of granite formed from magma that cooled and solidified at the slowest rate?

• a.



• c.



• b.



• d.



#13

The layering that occurs in sedimentary rock is called _____.

- a. ripple marks
- b. compaction
- c. foliation
- d. stratification

#14

Dark-colored igneous rock generally has a _____ composition.

- a. granitic
- b. foliated
- c. basaltic
- d. nonfoliated

#15 Which of the following detrital sedimentary rocks is composed of sediments with sharp angles?

- **a. sandstone**
- **b. shale**
- **c. siltstone**
- **d. breccia**

#16

What type of rock is represented below?

Magma Type	Basaltic	Andesitic	Granitic
Intrusive	Gabbro	Diorite	Granite
Extrusive	Basalt	Andesite	Pumice, Obsidian, Rhyolite

- **a. sedimentary**
- **b. metamorphic**
- **c. igneous**
- **d. foliated**

#17 Over time, dried lava from an old volcano is worn down and broken into small pieces. When these pieces pile up and are cemented together to form new rock, how would this new rock be classified?

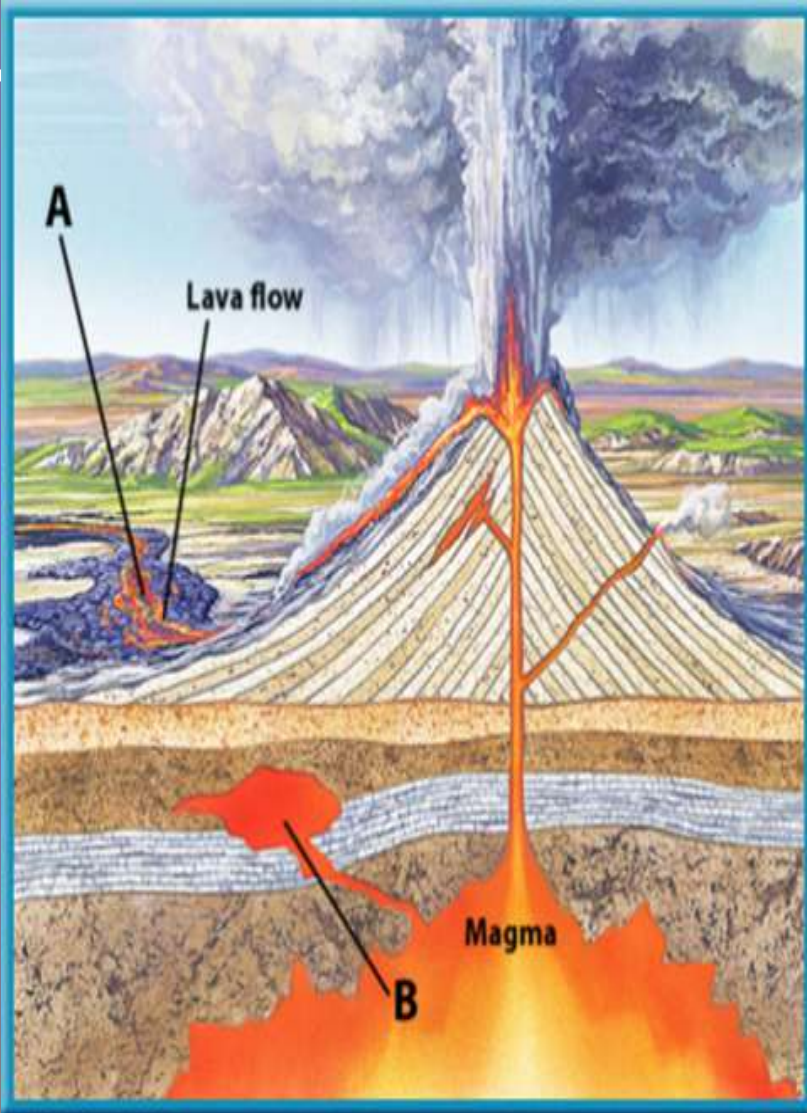
- a. sedimentary
- b. magma
- c. igneous
- d. metamorphic

When sugar is heated on a hot plate, it turns into a liquid. When the liquid ^{#18}sugar is cooled, a hard-crystalline substance is formed. This model best demonstrates the formation of

- a. igneous rocks**
- b. molten rocks**
- c. sedimentary rocks**
- d. metamorphic rocks**

Which type of rock is formed at *Point B*?

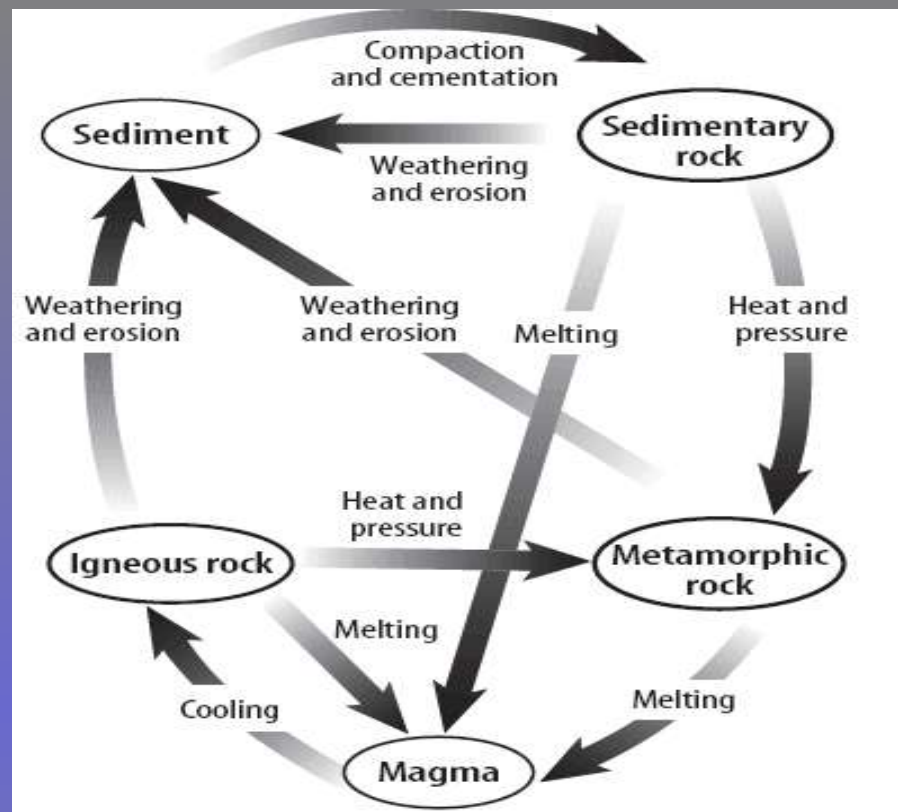
#19



- a. obsidian
- b. pumice
- c. granite
- d. scoria

#20

Which statement is best supported by the information shown in the diagram?



- a. Metamorphic rocks form by burial & cementing of sediments.
- b. Igneous rocks form by weathering & erosion of other rocks.
- c. Igneous rocks form by melting & solidification of magma.
- d. Sedimentary rocks form by heat & pressure applied to other rocks.

#21

Earth scientists classify the three main types of rock into smaller groups according to

- **a. streak & cleavage**
- **b. composition & texture**
- **c. density & hardness**
- **d. color & luster**

Why are fossils rarely found in metamorphic or igneous rock?

#22

- **a.** Decay of radioactive isotopes changes the fossils into a different rock structure.
- **b.** Intense magnetic fields found where these rocks form keep organisms from living things.
- **c.** Chemicals toxic to living organisms are released during formation of these rocks.
- **d.** Heat & pressure are great enough to destroy the structure of fossils found in these rocks.

**Diamonds are formed when
#2³ carbon is placed under
extreme heat & pressure. This
process occurs**

- **a. beneath the surface of Earth.**
- **b. in the ocean.**
- **c. in caves.**
- **d. in the atmosphere of Earth.**

#24

What is the process in which small sediments stick together and form solid rocks?

- **a. erosion**
- **b. compaction**
- **c. cycling**
- **d. cementation**

#25

Which of the following is a volcanic rock that contained trapped gases during its formation?

• a. slate

• c. pumice

• b. marble

• d. sandstone

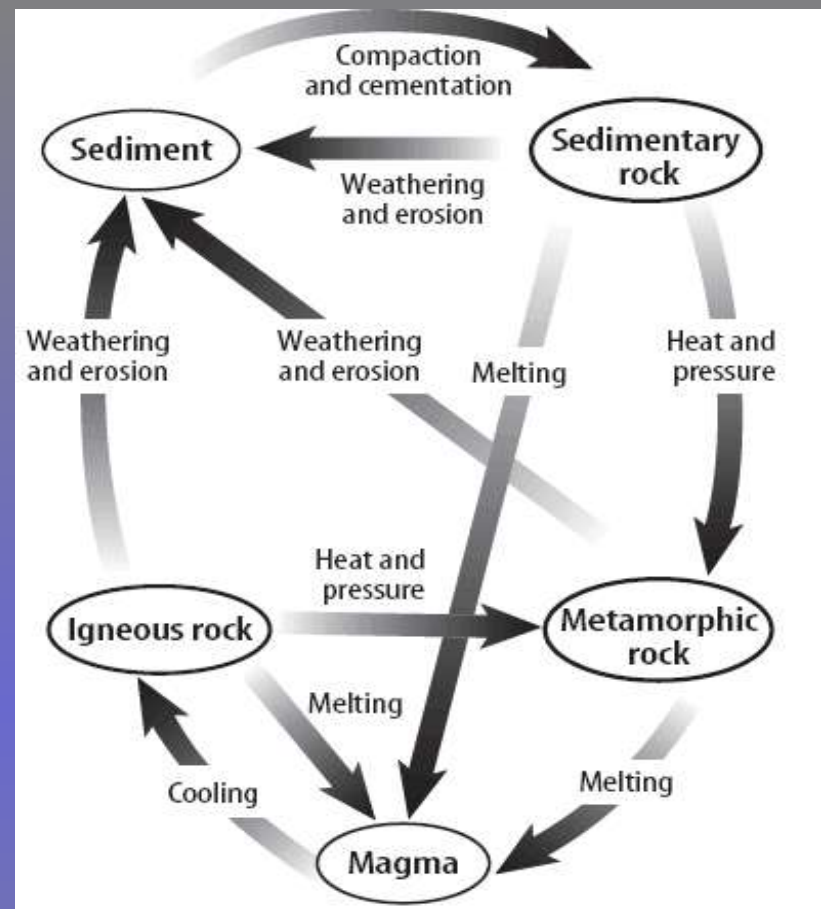
#26

Most of the minerals found in rocks belong to a group that contains silicon, oxygen & one or more metals. This group is called the _____.

- a. ores
- b. oxides
- c. silicates
- d. carbonates

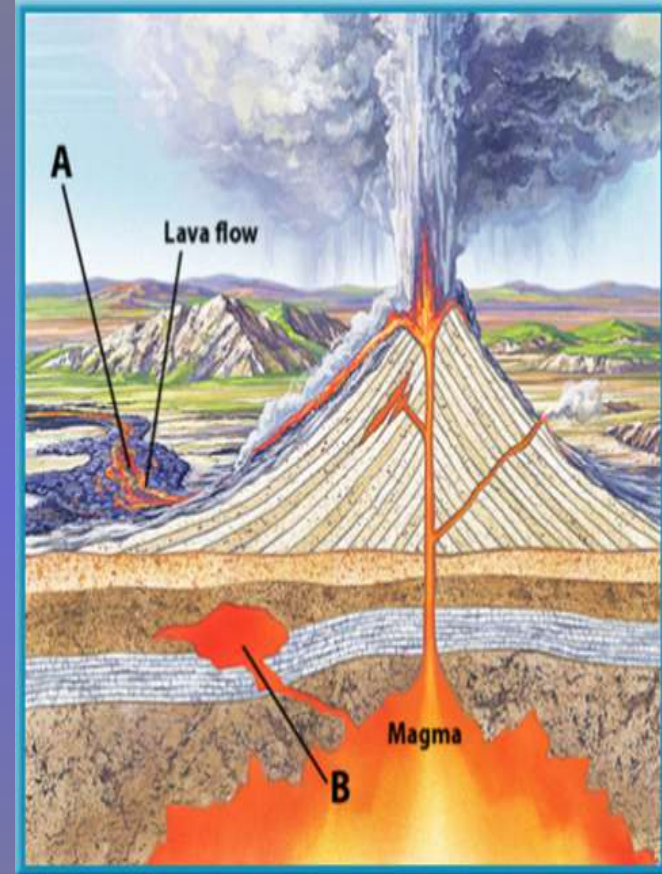
Write short answer:

#27 Explain how metamorphic rocks turn into igneous rocks. Use appropriate **vocabulary with details, examples, & diagrams.**



#27

Metamorphic rocks are created when rocks undergo heat & pressure. When metamorphic rocks melt deep in the Earth, they turn into magma. When that magma cools & solidifies under the Earth, it creates intrusive igneous rock that have large crystals. **Point B** on the diagram shows where intrusive igneous rock is formed. Rock created from lava that cools quickly on the surface of the Earth are called extrusive. They have very small crystals because the lava is cooled quicker. Some, like pumice, may have holes because of gases trapped inside during solidification. **Point A** on the diagram shows where extrusive igneous rocks form.



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The End!