




Name _____ Class _____ Date _____

1 An **explosive eruption** occurs when the lava has _____.


A high water content and low silica content
B low water content and high silica content
C high water content and high silica content
D low water content and low silica content



2 Nonexplosive lava flows often **cool quickly** on the surface while the molten lava continues to flow inside this harder outer "skin."


What do geologists call this type of lava?

A aa lava (pronounced *ah-ah*)
B blocky lava
C pahoehoe lava (pronounced *pa-hoe-ay-hoe-ay*)
D pillow lava



3 Lava flows that **cool** and have **jagged edges** are referred to as _____.


A aa lava (pronounced *ah-ah*)
B blocky lava



4 When lava erupts on the **ocean floor**, its outer surface cools very quickly. The lava formation has a glassy outer layer and large, rounded surfaces.

The geological term for this type of lava is _____.

A aa lava (pronounced *ah-ah*)
B blocky lava



5




PREVIEW

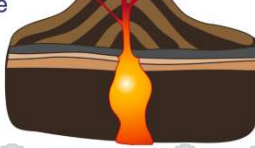
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7

A decrease, creating wet, cool summers
B increase, creating dry, hot summers
C increase, creating wet winters
D decrease, creating warm winters

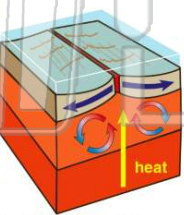


B it is hot and dense
C it is hot and less dense
D it is cool and less dense




9 What **two factors** interact with each other to allow the **melting of rock** material?

A pressure and density
B pressure and chemical composition
C temperature and chemical composition
D pressure and temperature



10 **Where** do volcanoes form?

A where tectonic plates collide
B where tectonic plates separate
C in the middle of tectonic plates
D all of the above





ANSWER KEY

An **explosive eruption** occurs when the lava has _____.



- A high water content and low silica content
- B low water content and high silica content
- C high water content and high silica content
- D low water content and low silica content

(C)

Nonexplosive lava flows often **cool quickly** on the surface while the molten lava continues to flow inside this harder outer "skin."

What do geologists call this type of lava?



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- B blocky lava
- C pahoehoe lava (pronounced *pa-hoe-ay-hoe-ay*)
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(C)

Lava flows that **cool** and have **jagged edges** are referred to as _____.



- A aa lava (pronounced *ah-ah*)
- B blocky lava
- C pahoehoe lava (pronounced *pa-hoe-ay-hoe-ay*)

(a)

When lava erupts on the **ocean floor**, its outer surface cools very quickly. The lava formation has a glassy outer layer and large, rounded surfaces.

The **geological term** for this type of lava is _____.



- A aa lava (pronounced *ah-ah*)
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(d)



PREVIEW

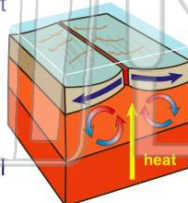
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- A cool summers
- B increase, creating dry, hot summers
- C increase, creating wet winters
- D decrease, creating warm winters

- C it is hot and less dense
- D it is cool and less dense



What **two factors** interact with each other to allow the **melting of rock** material?



- A pressure and density
- B pressure and chemical composition
- C temperature and chemical composition
- D pressure and temperature

(d)

Where do volcanoes form?

- A where tectonic plates collide
- B where tectonic plates separate
- C in the middle of tectonic plates
- D all of the above



(d)