



Name _____ Class _____ Date _____

1 A **mountain** that forms when **magma** erupts from the earth's crust and onto the surface is called a _____.

- A lava
- B volcanic bomb
- C volcano
- D pillow basalt



2 There are two categories of volcanoes that are defined based on **how the lava erupts** from the volcano. The volcano pictured here is known as a(n) _____.

- A explosive volcano
- B nonexplosive volcano
- C sea mount
- D mid-ocean ridge



3 As magma travels from the mantle through the crust, it cools a little at a time. As it cools, minerals rich in iron and magnesium crystallize out of the magma. The **remaining magma** has **greater silica** content. In this **explosive** volcano, the magma has traveled through the entire crust before it erupted. **One can conclude that high silica content results in an explosive eruption.**



4 Explosive volcanoes form where magma has had to work its way through a thick layer of continental crust. Which types of tectonic plate boundaries are **layered** to create the setting for an explosive volcanic eruption?

- A transform boundaries
- B mid-ocean ridges



True or false?

A
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C
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A
E
C
E

5



PREVIEW

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7

- B cinder cone
- C sea mount
- D shield volcano



- and lava flows
- B accumulation of ashes and cinders
- C only nonexplosive lava flows
- D only pyroclastic material in explosive eruptions



9 A tube called a pipe allows magma to flow to the surface and out of the earth's crust through a vent to form a volcano. At the top of many volcanic vents are a **cone-shaped depression** formed when pyroclastic material erupts from the volcano. **Geologists call this depression a _____.**

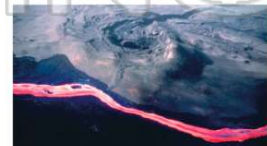
- A caldera
- B crater
- C plateau
- D magma chamber



10 Some volcanoes result in **thick, extensive layers** of lava called **lava plateaus** that can cover thousands of square miles.

Lava plateaus form when there is _____.

- A magma that is high in silica content
- B magma that is low in silica content
- C a long crack in the crust
- D a round hole in the crust





ANSWER KEY

A **mountain** that forms when **magma** erupts from the earth's crust and onto the surface is called a _____.

- A lava
- B volcanic bomb
- C volcano
- D pillow basalt



(C)

There are two categories of volcanoes that are defined based on **how the lava erupts** from the volcano. The volcano pictured here is known as a(n) _____.

- A explosive volcano
- B nonexplosive volcano
- C sea mount
- D mid-ocean ridge



(a)

As magma travels from the mantle through the crust, it cools a little at a time. As it cools, minerals rich in iron and magnesium crystallize out of the magma. The **remaining magma** has **greater silica content**. In this **explosive** volcano, the magma has traveled through the entire crust before it erupted. **One can conclude that high silica content results in an explosive eruption.**

True or false?



(a)

Explosive volcanoes form where magma has had to work its way through a thick layer of continental crust. Which types of tectonic plate boundaries are layered to create the setting for an explosive volcanic eruption?

- A transform boundaries
- B mid-ocean ridges
- C rift zones
- D subduction zones



(d)



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- C sea mount
- D shield volcano



- B accumulation of ashes and cinders
- C only nonexplosive lava flows
- D only pyroclastic material in explosive eruptions



A tube called a pipe allows magma to flow to the surface and out of the earth's crust through a vent to form a volcano. At the top of many volcanic vents are a **cone-shaped depression** formed when pyroclastic material erupts from the volcano. **Geologists call this depression a _____.**

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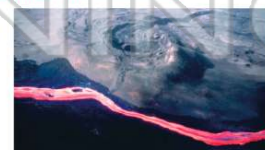


(b)

Some volcanoes result in **thick, extensive layers** of lava called **lava plateaus** that can cover thousands of square miles.

Lava plateaus form when there is _____.

- A magma that is high in silica content
- B magma that is low in silica content
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- D a round hole in the crust



(c)