

Brainpop—Volcanoes

Name:

Period:

Watch the Brainpop on volcanoes, then answer the questions below.

- _____ 1. Which statement is true about temperatures in the Earth?
- it remains the same temperature everywhere
 - it gets cooler as you go deeper
 - it gets hotter as you go deeper
 - the temperature is unpredictable
- _____ 2. What causes volcanoes to erupt?
- drilling too deeply through the crust
 - heat energy pushing material out from the mantle
 - carbon dioxide buildup in the ozone layer
 - lava seeping out of damaged crust
- _____ 3. Why does magma rise through the crust?
- it is mixed with hot gas
 - it is less dense than crust
 - it has bubbles that are trying to escape
 - all of the above
- _____ , _____ 4. Why are shield volcanoes relatively flat? [choose 2 answers]
- their lava does not have a lot of gas
 - their lava has a lot of gas
 - there is not much pressure building up in them
 - there is a lot of pressure building up in them
- _____ 5. Lava from a stratovolcano is viscous. Which of these things is also viscous?
- ice water
 - honey
 - steam
 - fire
- _____ 6. Why are the eruptions of stratovolcanoes usually more destructive than the eruptions of shield volcanoes?
- magma in stratovolcanoes contains more gas
 - lava flows out of several openings in stratovolcanoes
 - stratovolcanoes erupt more frequently
 - magma in stratovolcanoes is hotter
- _____ 7. Where do subduction zones occur?
- at boundaries between nations
 - at boundaries between deserts and oceans
 - at boundaries between lakes and shores
 - at boundaries between tectonic plates
- _____ 8. Where would you expect to find hotspot volcanism?
- the Ring of Fire
 - mid-ocean ridges
 - both the Ring of Fire and mid-ocean ridges
 - neither the Ring of Fire nor mid-ocean ridges
- _____ 9. Which term best describes the landmass of Hawaii's big island?
- increasing
 - constant
 - diminishing
 - disappearing
- _____ 10. Which of the following is a major challenge to volcano preparedness?
- volcanoes are located far from inhabited areas
 - eruptions are unpredictable
 - flowing lava is impossible to outrun
 - disaster kits are not useful in the event of an eruption
- _____ 11. Which statement about dormant volcanoes must be true?
- they can never erupt again
 - they have not erupted for a very long time
 - they will erupt within the next 12 months
 - they were formed at mid-ocean ridges
- _____ 12. Which of the following is an *opinion* about volcanic activity?
- volcanoes are made of hardened lava
 - a large number of volcanoes can be found along the edge of the Pacific Ocean
 - the 1991 eruption of Mt. Pinatubo was the scariest volcanic event in history
 - shield volcanoes can actually create new land

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Look at the image to the left from the cartoon. What does Moby shaking up a soda can have to do with volcanoes?

Why are volcanoes usually found along plate boundaries? *Hint: think about how close magma is to the surface at these locations.*

Complete the sentences below using terms from the word bank.

climate dormant hot spots lava magma Ring of Fire tectonic plates

1. The chain of volcanoes circling the Pacific Ocean is called the _____ .
2. _____ is molten rock still inside a volcano. _____ is molten rock on Earth's surface.
3. The Hawaiian Islands are a chain of volcanoes that formed over _____ .
4. Ash clouds from large eruptions can cause global _____ change.
5. A volcano that hasn't erupted in a long time may be _____ .
6. Volcanoes are usually found along the edges of _____ .