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May you be blessed on your homeschooling journey.

♥ Marie

### **Parts of a VOLCANO Guided Notes**

Learning to take notes is an important skill to learn. These guided notes are effective in encouraging reading comprehension and note-taking skills. Make sure to use the guided notes with the “Parts of a VOLCANO” slideshow. Happy learning!

## Volcanoes Guided Notes

- 1) A \_\_\_\_\_ is a weak spot in the crust where magma comes to the surface.
- 2) What causes volcanoes to form?
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
- 3) A \_\_\_\_\_ zone is when two tectonic plates \_\_\_\_\_, also known as a \_\_\_\_\_ boundary.
- 4) An \_\_\_\_\_ is a chain of volcanic islands or mountains formed as an oceanic tectonic plate subducts under another tectonic plate causing magma to rise to the surface.
- 5) The \_\_\_\_\_ is a mountain range in the ocean that is caused by \_\_\_\_\_ plate boundaries. When the plates move \_\_\_\_\_, magma rises and cools.
- 6) The \_\_\_\_\_ is a major volcano belt formed by many volcanoes that rim the Pacific Ocean.
- 7) An area where magma from deep within the mantle melts through the crust like a blow torch is called a \_\_\_\_\_.
- 8) A fixed hot spot created the \_\_\_\_\_ Islands.
- 9) Where can you find volcanoes in the United States?  
\_\_\_\_\_  
\_\_\_\_\_
- 10) \_\_\_\_\_ is molten mixture of rock-forming substances, gases, and water vapor in the \_\_\_\_\_.

- 11) A \_\_\_\_\_ is a mass of rock formed when a large body of \_\_\_\_\_ cools inside the crust.
- 12) A \_\_\_\_\_ happens when magma forces itself across rock layers and then hardens \_\_\_\_\_.
- 13) A \_\_\_\_\_ is magma that squeezes between layers of rock \_\_\_\_\_.
- 14) The area covered by lava as it pours out of a vent (top of volcano) is called \_\_\_\_\_.
- 15) The two main types of lava are \_\_\_\_\_ and \_\_\_\_\_.
- 16) Pahoehoe is \_\_\_\_\_-\_\_\_\_\_ hot lava.
- 17) Aa is cooler and \_\_\_\_\_ moving lava that is not smooth.
- 18) When magma or lava cools, they become \_\_\_\_\_ rock. \_\_\_\_\_, obsidian, \_\_\_\_\_, and pumice are common igneous rocks.
- 19) The \_\_\_\_\_ is where magma collects in a pocket.
- 20) The long tube in the ground that connects the magma chamber to the surface is called the \_\_\_\_\_.
- 21) Molten rock and gas leave the volcano through an opening called the \_\_\_\_\_.
- 22) The \_\_\_\_\_ is a bowl-shaped area that may form at the top of a volcano around the volcano's central vent.
- 23) An \_\_\_\_\_ is the cloud of ash that forms in the air after some volcanic eruptions.

## Volcanoes Guided Notes

- 1.) A **volcano** is a weak spot in the crust where magma comes to the surface.
- 2.) What causes volcanoes to form?
  - a. **Convergent boundary**
  - b. **Divergent boundary**
  - c. **Hot spots**
- 3.) A **subduction** zone is when two tectonic plates **collide**, also known as a **convergent** boundary.
- 4.) An **island arc** is a chain of volcanic islands or mountains formed as an oceanic tectonic plate subducts under another tectonic plate causing magma to rise to the surface.
- 5.) The **mid-ocean ridge** is a mountain range in the ocean that is caused by **divergent** plate boundaries. When the plates move **apart** magma rises and cools.
- 6.) The **Ring of Fire** is a major volcano belt formed by many volcanoes that rim the Pacific Ocean.
- 7.) An area where magma from deep within the mantle melts through the crust like a blow torch is called a **Hot Spot**.
- 8.) A fixed hot spot created the **Hawaiian** Islands.
- 9.) Where can you find volcanoes in the United States? **On the west coast and along the coastline of Alaska**

- 10.) **Magma** is molten mixture of rock-forming substances, gases, and water vapor in the **crust**.
- 11.) A **batholith** is a mass of rock formed when a large body of **magma** cools inside the crust.
- 12.) A **dike** happens when magma forces itself across rock layers and then hardens **vertically**.
- 13.) A **sill** is magma that squeezes between layers of rock **horizontally**.
- 14.) The area covered by lava as it pours out of a vent (top of volcano) is called **lava flow**.
- 15.) The two main types of lava are **Pahoehoe** and **Aa**.
- 16.) Pahoehoe is **fast-moving** hot lava.
- 17.) Aa is cooler and **slower** moving lava that is not smooth.
- 18.) When magma or lava cools, they become **igneous** rock. **Basalt**, obsidian, **granite**, and pumice are common igneous rocks.
- 19.) The **magma chamber** is where magma collects in a pocket.
- 20.) The long tube in the ground that connects the magma chamber to the surface is called the **pipe**.
- 21.) Molten rock and gas leave the volcano through an opening called the **vent**.
- 22.) The **crater** is a bowl-shaped area that may form at the top of a volcano around the volcano's central vent.
- 23.) An **ash cloud** is the cloud of ash that forms in the air after some volcanic eruptions.