

## Volcanoes

The movement of tectonic plates causes volcano formation.

1. Composite volcanoes are found along plate boundaries and are made of layers of ash and lava, which is magma on Earth's surface.

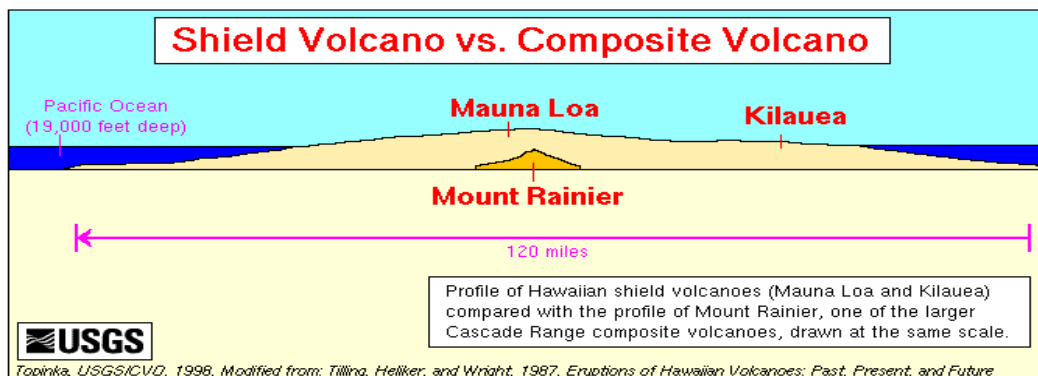
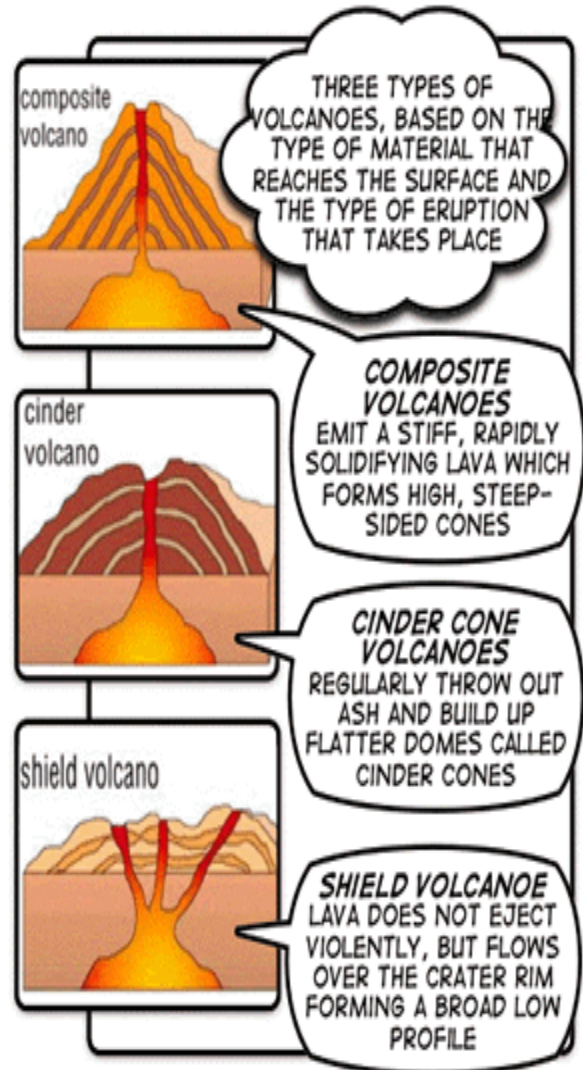
### Real World:

- Mt. Fuji in Japan,
- Mt. Rainier & Mt. St. Helens in Washington

2. Shield volcanoes form over hot spots. Lava flows out from a hot spot and forms a low, wide cone.

### Real World:

- The Hawaiian Islands (see Data Pages) are an example of a chain of shield volcanoes.
  - The Anahim Volcanic Belt (see Data Pages) formed over a hot spot in the middle of British Columbia.
3. Rift eruptions occur along long cracks in the lithosphere, such as along the Mid-Atlantic Ridge.



Name: \_\_\_\_\_

Pd: \_\_\_\_\_ Date: \_\_\_\_\_

**Bill Nye Volcano Video**

1. The first volcanic eruption Bill talks about is called \_\_\_\_\_.
2. This volcano is located \_\_\_\_\_ and it erupted in \_\_\_\_\_.
3. Volcanoes usually occur \_\_\_\_\_.
4. Hawaii was formed on \_\_\_\_\_.
5. The Hawaiian Islands form an almost perfectly straight chain of islands because \_\_\_\_\_  
\_\_\_\_\_.
6. The name of a hole in a lava field where you can see the lava is \_\_\_\_\_.
7. The names of the three types of volcanoes are \_\_\_\_\_,  
\_\_\_\_\_, and \_\_\_\_\_.
8. Mt. St. Helens, which is on a plate boundary, was much more explosive than Mt. Kilauea in Hawaii because \_\_\_\_\_  
\_\_\_\_\_.
9. The reason scientists study volcanoes is \_\_\_\_\_  
\_\_\_\_\_.
10. The two types of Lava are \_\_\_\_\_ and \_\_\_\_\_.
11. A volcano that hasn't erupted in 200 years is called \_\_\_\_\_.

Name: \_\_\_\_\_  
Pd: \_\_\_ Date: \_\_\_\_\_

**Quick Check # 6**

**1. List three types of volcanoes and state where each is found.**

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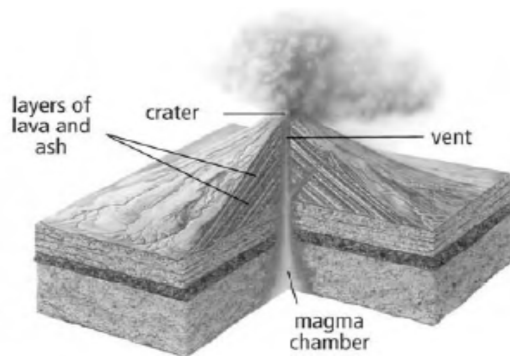
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*Refer to Map of the Pacific Coast of North America on page 10 of your Data Pages. Find the Juan de Fuca Plate, which is a small triangular plate that has a different kind of plate boundary on each side.*

**2. What will happen to the Juan de Fuca plate in the distant future?**

- A. It will be subducted under the North American plate and melt.
- B. It will get larger and push the North American plate east as it moves west.
- C. It will form an island arc.
- D. It will remain basically unchanged.



**3. What kind of volcano is shown in the diagram?**

- A. composite
- B. shield
- C. rift
- D. hot spot