

When Mount St. Helens erupted, -

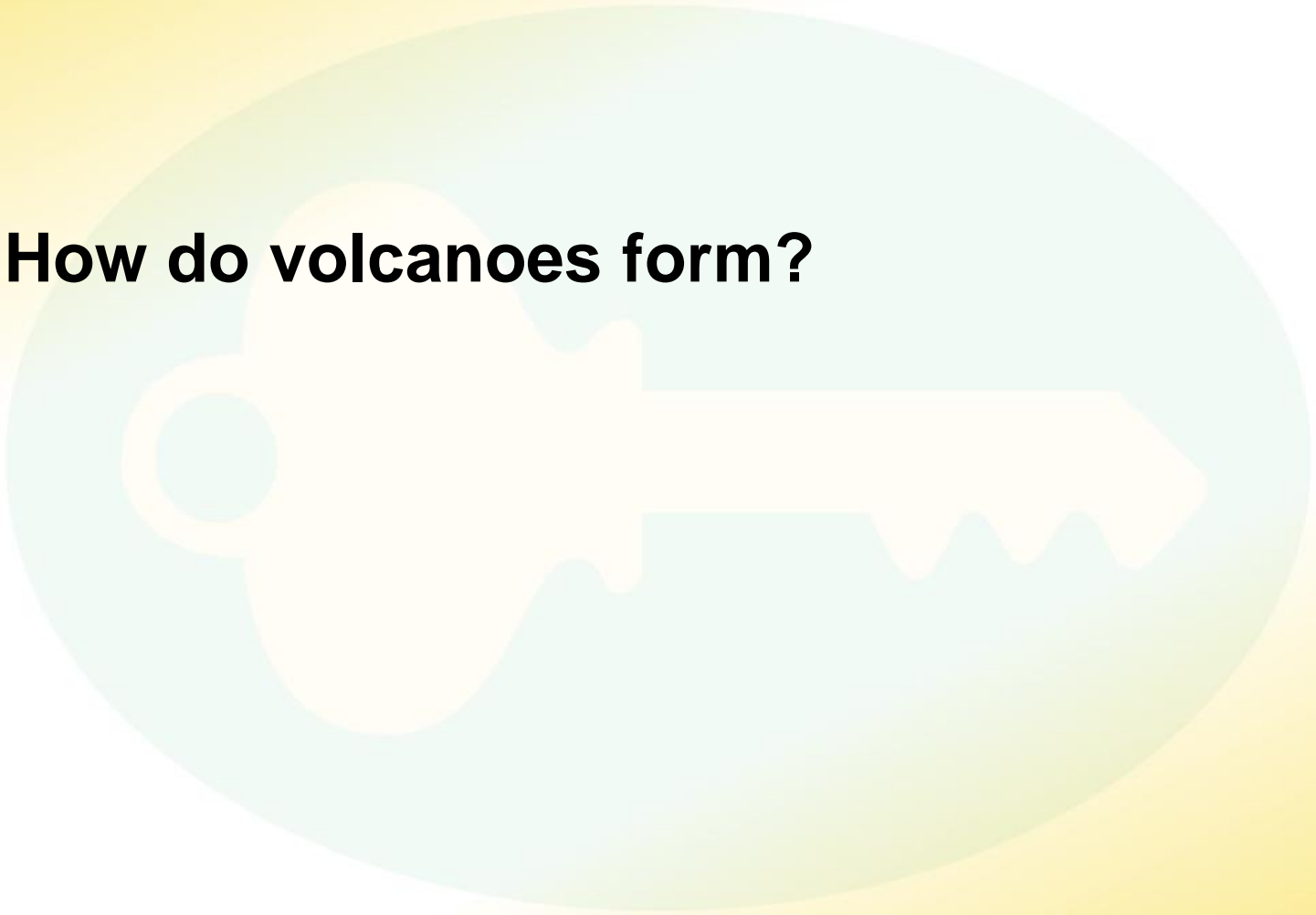


A volcano is -

Formation of a Volcano



How do volcanoes form?



Formation of a Volcano

How a Volcano Erupts

- Magma is -
- Lower pressure near -
- An eruption occurs -

Formation of a Volcano

Structure of a Volcano

- Before an -
- Magma slowly -
- Then, magma rises -

Formation of a Volcano

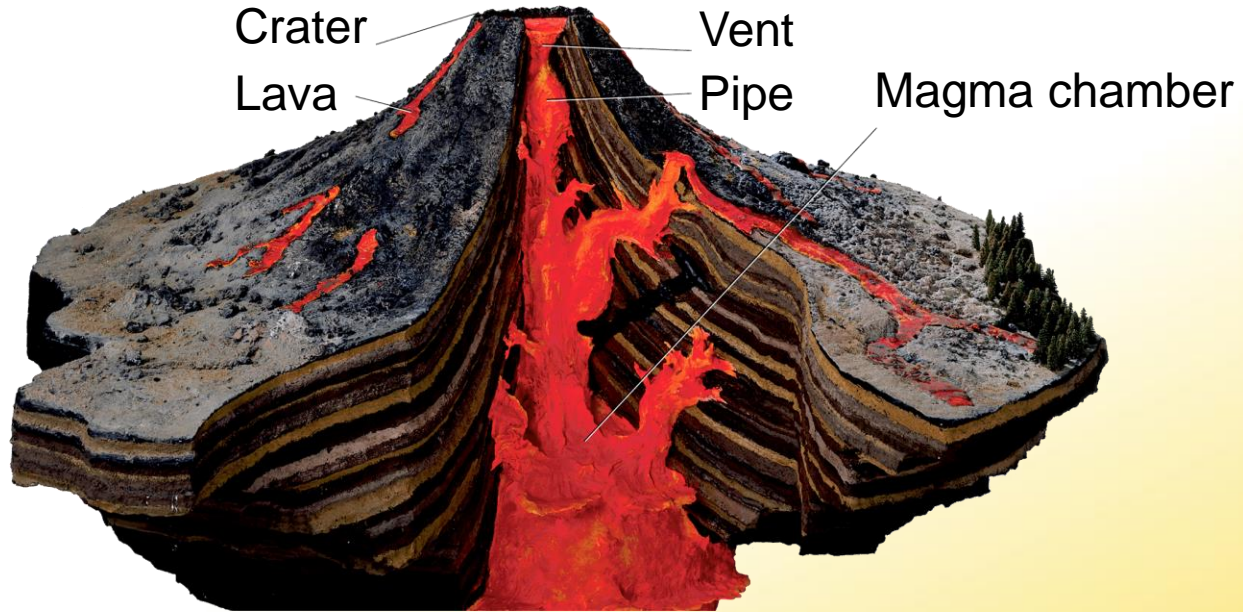
- An opening in -
- Often there is -
- At the top of the central vent -

Formation of a Volcano

- After an eruption-
- If this shell -

Formation of a Volcano

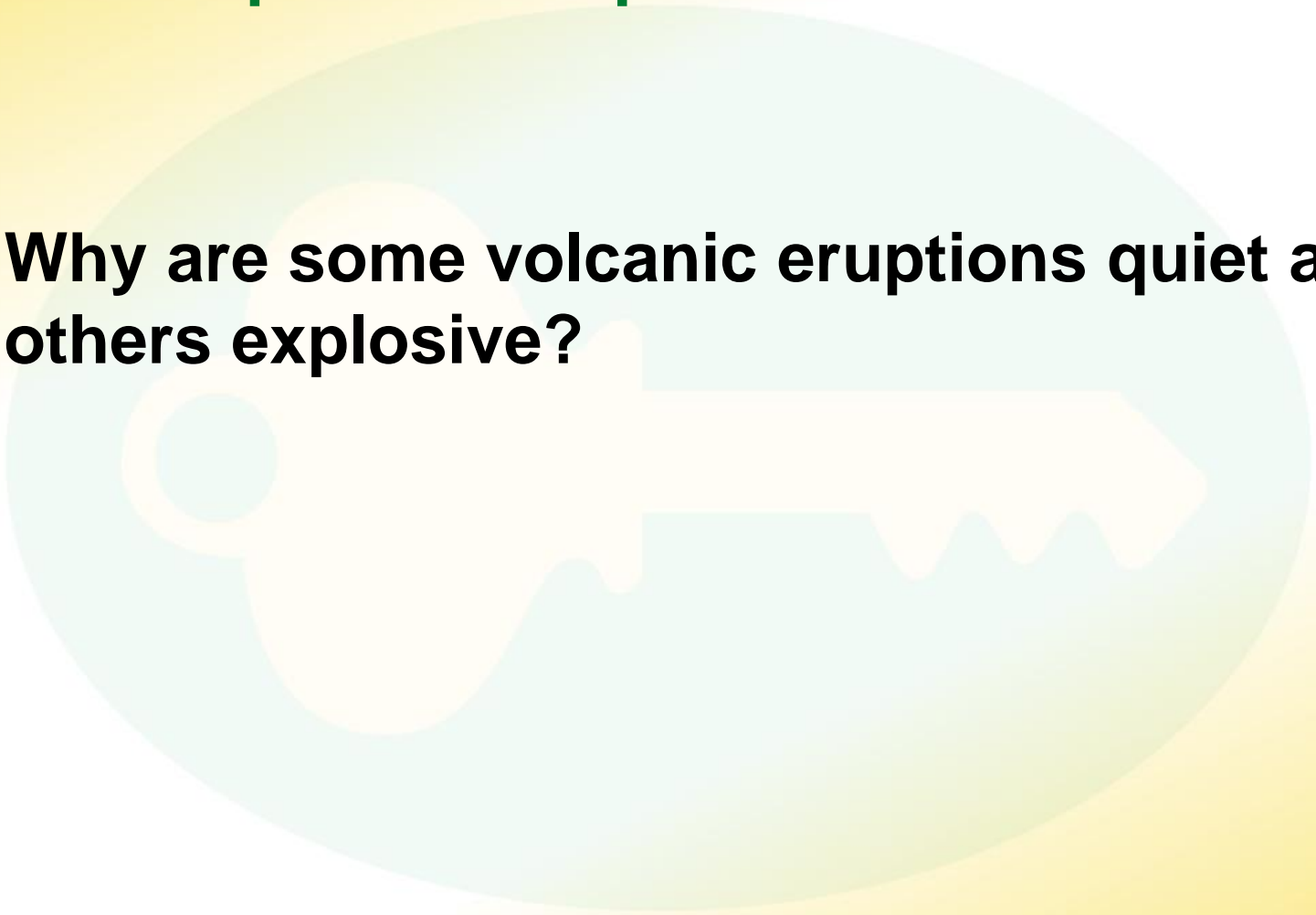
When a volcanic mountain erupts-



Quiet and Explosive Eruptions



Why are some volcanic eruptions quiet and others explosive?



Quiet and Explosive Eruptions

There are three main factors that determine the viscosity of magma-

- Higher temperatures -
- Water in magma -
- Magma that is -

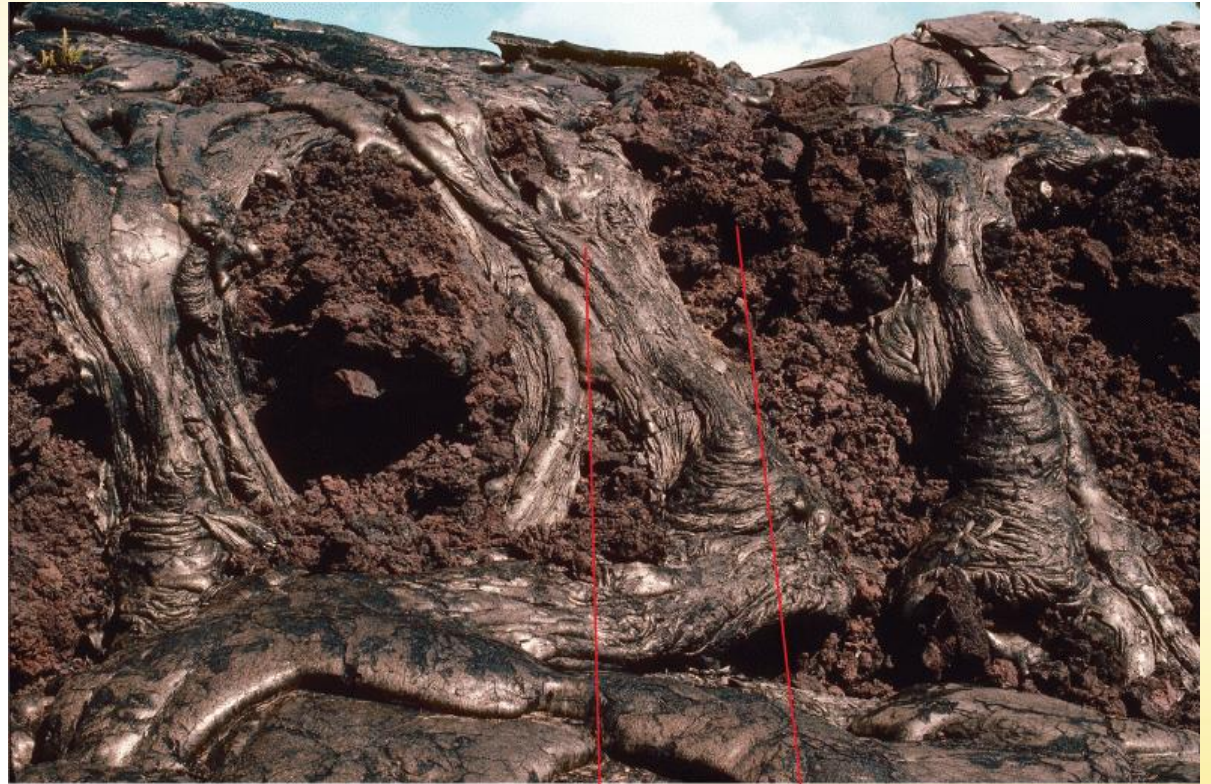
Quiet and Explosive Eruptions

Quiet Eruptions

Volcanoes -

Quiet and Explosive Eruptions

Quiet eruptions produce two -



pahoehoe

aa

Quiet and Explosive Eruptions

Mt. Kilauea in -



Quiet and Explosive Eruptions

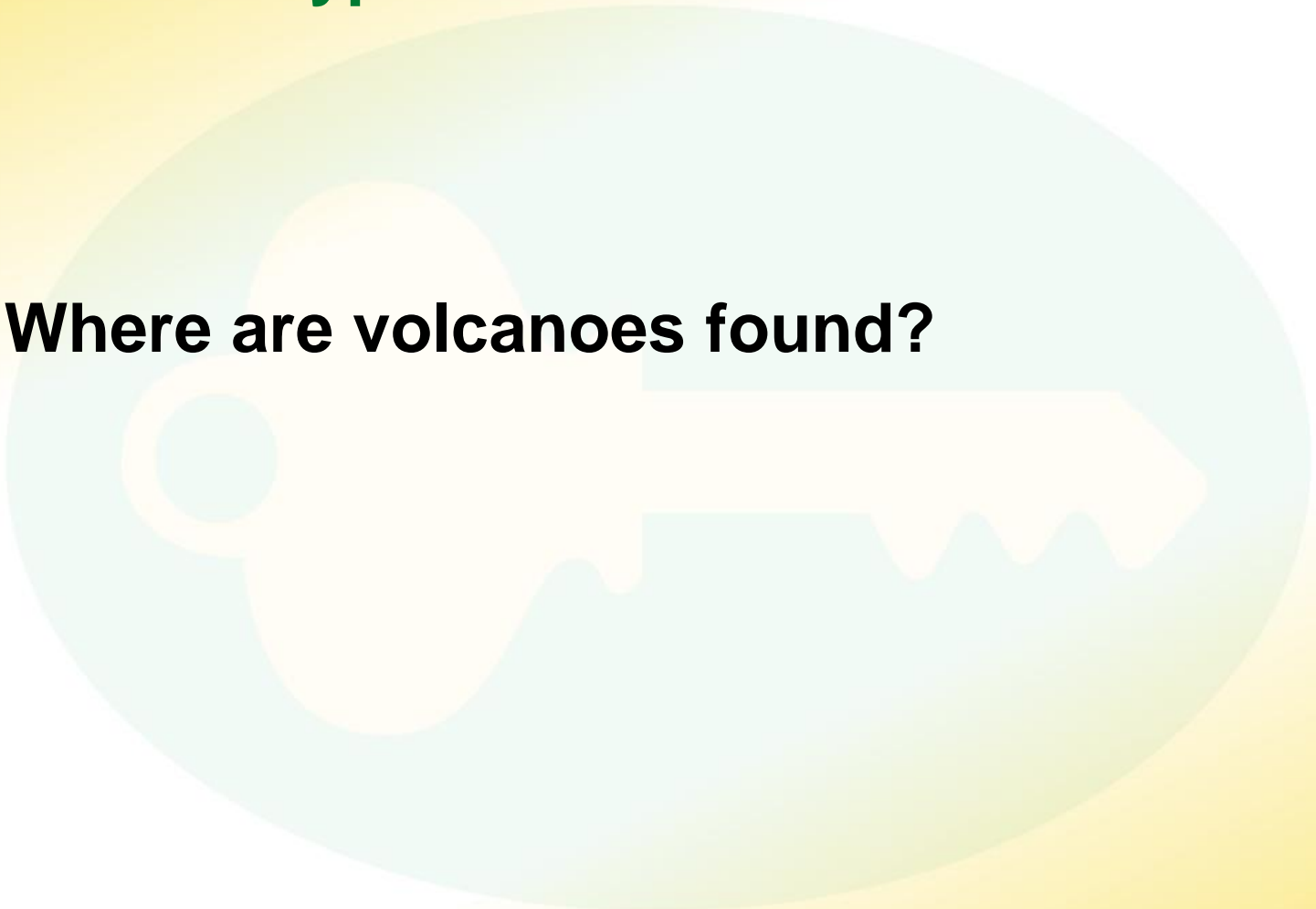
Explosive Eruptions

High-silica -

Location and Types of Volcanoes



Where are volcanoes found?

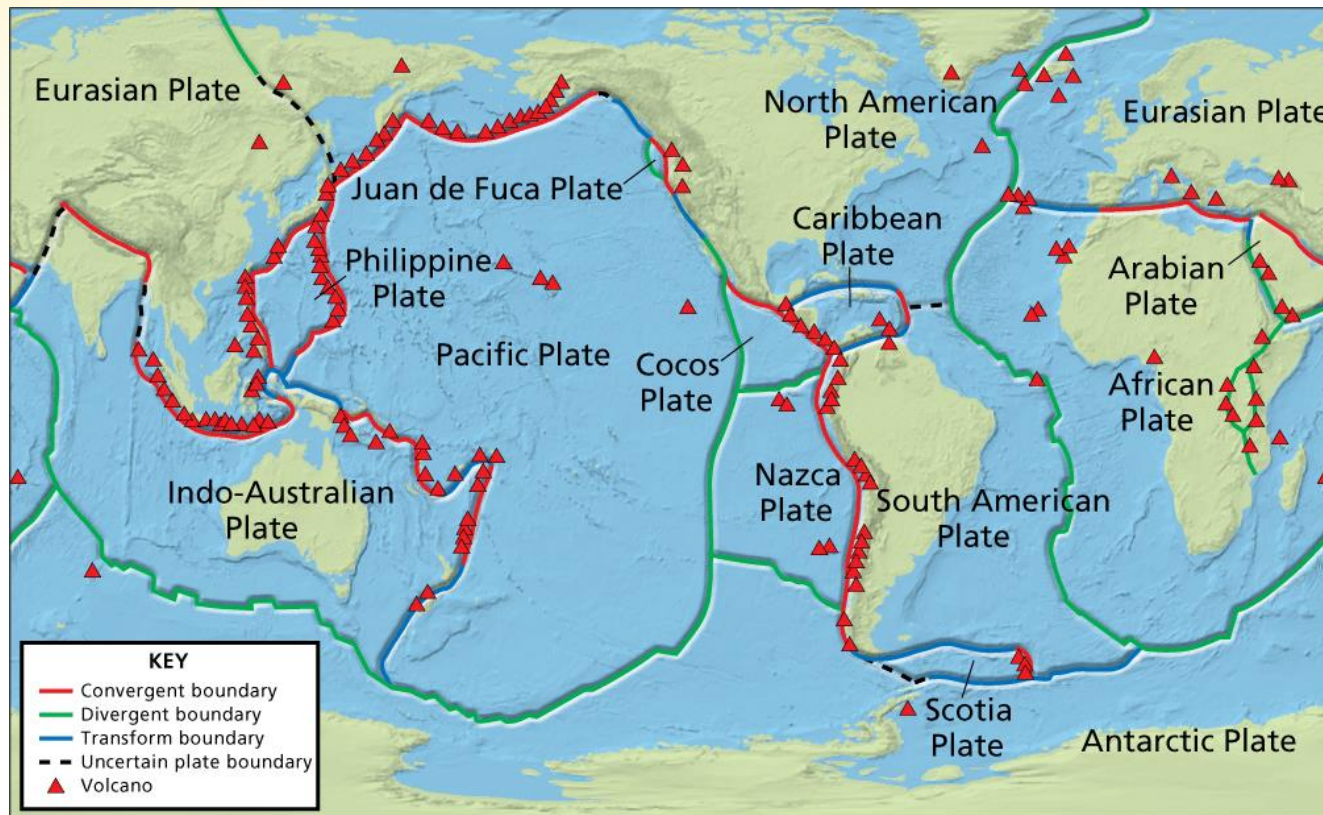


Location and Types of Volcanoes

- Volcanoes also -
- Some volcanoes occur at -

Location and Types of Volcanoes

Except -



Location and Types of Volcanoes



The three major types of volcano -

Location and Types of Volcanoes

A quiet eruption -

If an eruption is -

A volcano that forms from -

Other Igneous Features



What landforms are formed from lava and magma?

Other Igneous Features

A **batholith** is -

- If the crack is -
- If the crack cuts across rock layers-
- When magma hardens -

Other Igneous Features

Ship Rock in New Mexico is a volcanic neck. It formed-



Assessment Questions

1. An opening in the ground where magma escapes to the surface is called a
 - a. vent.
 - b. crater.
 - c. pipe.
 - d. magma chamber.

Assessment Questions

2. A quiet eruption occurs when a volcano is filled with
- very hot, low-silica magma.
 - high-silica magma.
 - cinders and lava bombs.
 - water

Assessment Questions

3. Short, isolated chains of volcanoes, such as the Hawaiian Islands, occur at
- divergent boundaries.
 - convergent boundaries.
 - hot spots.
 - rift valleys.

Assessment Questions

4. What type of structure forms when magma hardens in a volcano's pipe?
- a. a batholith
 - b. a sill
 - c. a dike
 - d. a volcanic neck