**C7 Volcano Test Study Guide**

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

Volcanic belts from along the boundaries of Earth’s plates.

The formation of the Hawaiian Islands is one example of volcanoes forming over a hot spot.

A volcanic pipe is the long tube that connects the magma chamber to the Earth’s surface.

If a volcano’s magma is high in silica, it will be more viscous, and likely to erupt explosively.

Pahoehoe is fast moving hot lava, whereas Aa is cooler slower moving lava.

The main hazard from a quiet volcanic eruption is lava flows such as Pahoehoe or Aa.

A hot spring occurs when groundwater heated by magma rises to the surface and collects in a natural pool.

Groundwater heated by magma is a potential source of geothermal energy.

Composite volcanoes produce tall cone-shaped mountains which consist of alternating layers of lava and ash.

Shield volcanoes produce broad dome shaped mountains which resemble a shield on the ground. The most dramatic example would be Olympus Mons on Mars, or the Hawaiian Islands.

Cinder volcanoes are smaller cone-shaped mountains made primarily of cinders.

Explosive eruptions can produce pumice.

Dome mountains are formed when a mass of hardened lava is uplifted, causing layers of rock to bend upward (somewhat like an anticline)

Silica, which consists of silicon and oxygen, is the main ingredient of magma. The more silica, the more viscous the magma, and the more likely for an explosive eruption.

The upward movement of magma, for example in a pipe, can trigger small earthquakes around the volcano.

Physical properties include such things as: melting point, hardness, and density.

After magma reaches the surface, it is called lava.

Volcanoes along converging oceanic plate boundaries may from an island arc.

A caldera is a huge hole left by the collapse of a volcanic mountain. Sometimes they fill with water and become beautiful lakes, such as Crater Lake.

When magma hardens in a volcanic pipe, the result will eventually be a landform called a volcanic neck.

Dissolved gasses trapped in the magma causes the magma to erupt toward the surface.