**Volcano Scavenger Hunt**

1. The study of volcanoes is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. A scientist who studies volcanoes is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Molten rock below the surface of the Earth is called?\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Molten rock above the surface of the Earth is called? \_\_\_\_\_\_\_\_\_\_\_\_\_
5. A vent or fissure in the Earth’s surface through which magma and gases are expelled is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. The most active volcanic area in the world is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
7. Speed of a lava flow can range from a slow creep to as fast as

\_\_\_\_\_\_\_\_\_\_ km/h.

1. The composition of the magma will affect the explosiveness of the eruption. The key lies in the \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_\_\_\_ content of the magma.
2. List the 4 types of lava \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. List the 4 types of pyroclastic material \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. A pyroclastic flow can race downhill at speeds of more than \_\_\_\_\_\_\_\_\_km/h and can reach temps of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ºC.
5. What type of volcano was created from moderately explosive eruptions?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. The most common types of volcanoes, which are formed from explosive eruptions followed by quieter lava flows, are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. What type of volcano is formed from repeated non-explosive eruptions?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. What type of volcano is Paricutin?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. What type of volcano is Mt.Hood, Mt.Rainier, Mt.Shasta, and Mt.St. Helens?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. What type of volcano is Mauna Kea?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
11. What are two warning signs that a volcanic eruption could occur? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. What are two interesting facts about the Kilauea volcano made the news in January, 2004? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_
13. Volcanoes are classified into three categories \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. What type of volcano is the Kilauea volcano in Hawaii? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. What state is Mt. Shasta in?\_\_\_\_\_\_\_\_\_\_\_\_\_\_ How tall is it? \_\_\_\_\_\_
16. When did Mt. St. Helen’s last erupt? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
17. How old is Mt. St. Helens? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 How tall is it’s lava dome? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What year did the movie Dante’s Peak come out?\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. The funnel-shaped pit near the top of the central vent of a volcano is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. The large, semicircular depression that forms when the magma chamber below a volcano partially empties and causes the ground above to sink is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. Hot spots are created by columns of rising magma, called \_\_\_\_\_\_\_.
5. Super volcanoes <http://ngm.nationalgeographic.com/2009/08/yellowstone/yellowstone-interactive>

 What is under Yellowstone national park that is creating this super volcano? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The city of Pompeii was devastated in AD 79 by the eruption of what volcano? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. On November 26, 2010, Pakistani fishermen returned from a day at sea to report that he found \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ <http://earthobservatory.nasa.gov/IOTD/view.php?id=48801>
3. Name the only type of volcanic rock that floats.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. There are over \_\_\_\_\_ U.S. volcanoes that have erupted in the last 10,000yrs. <http://volcanoes.usgs.gov/about/volcanoes/volcanolist.php>
5. What does an orange triangle mean on the USGS activity alert? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ <http://volcanoes.usgs.gov/>

Fun fact The color of lava depends on its temperature.

 It starts out bright orange (1000-1150 ºC). As it cools the color changes to bright red (800-1000 ºC), then do dark red (650-800 ºC), and to brownish red (500-650 ºC). Solid lava is black (but can still be very hot).