

ES104 – Volcanism Video Exercise (Earth Revealed Series) Name _____

Watch the video and use your text book to answer the following questions.

1. True or False: Earth is the only planet or planet-like body in the solar system that displays active volcanism.
 - a. If False: what others are associated with volcanism?
2. True or False: Magma is more dense than solid rock and sinks.
3. List the three types of volcanic materials that are ejected/emitted from a volcano.
4. At what types of plate boundaries do volcanoes occur?
5. Explain how hot spots are related to volcanoes, draw a sketch.
 - a. Give an example of hot spot volcanism?
 - b. What composition of magma is your example associated with: rhyolitic, andesitic, or basaltic?
6. Define and sketch a shield volcano.
7. True or False: Fluid, runny, or “low viscosity” lavas tend to form low-angle shield volcanoes.
8. What types of plate boundaries are found around the “Ring of Fire”?
9. Define and sketch a strato or composite volcano.
10. What is the main type of volcanic rock found in association with shield volcanoes?
11. True or False: low-silica lavas are of lower temperature compared to high-silica lavas.
12. True or False: High viscosity lavas tend to be associated with explosive volcanic eruptions.
13. Define and sketch a cinder cone.
14. True or False: all volcanoes are the same size, shape, and chemical/mineral composition.
15. True or False: plate tectonic setting is the main control on the style, size, and type of volcano.