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## *Birth of Rocks Unit 1 Study Guide*

### **Vocabulary**

1. Volcano- a mountain or hill with an opening at the top from which magma from the earth is pushed upwards through the opening/long shaft
2. Weathering- a natural process that slowly breaks apart or changes rock. Heat, water, wind, living things, and other natural forces cause weathering as well.
3. Erosion- water, wind, and other natural forces cause rocks and earth to wear away
4. Ice-wedging- repeated freezing and melting of water within small cracks in the rock surface.
5. Root-wedging- A process where plants and their roots wedge into cracks in bedrock, and widen them.
6. Cone volcano- the hill-shaped landform that forms around a volcano.
7. Shield volcano- long, gently sloping sides that resemble a warrior's shield
8. Sedimentary rock- formed from broken down bits of other rocks or even from the remains of plants or animals.
9. Fossils- remains or traces of prehistoric life such as bones or impressions like footprints
10. Landslide- large amount of earth, rock, and other material that moves down a steep slope.

## **Concepts**

1. The majority of volcanoes are located near oceans and coasts because they occur where the crust is thin, near tectonic plates or hot spots.
2. Flat volcanoes do not explode because the composition of the magma/lava is thin so gasses escape easily from it, making lava flow instead of explode
3. Tall volcanoes explode because magma below the surface rises to the top of the mountain, causing gas and bubbles to appear. Pressure from this gas can build so much that a volcano explodes and thick lava comes out.
4. The two types of lava are thick and thin. Thick lava comes from cone volcanoes and thin lava comes from shield volcanoes.
5. When a sharp and jagged rock breaks away from a mountain and it falls down the mountain the rock will be more smooth and rounded.
6. You can prevent a landslide from happening in the future by installing a retaining wall or netting, improving water/rain drainage, reducing the angle of slope and planting trees.