



Volcano Construction Lab

1. You will be constructing three Volcano Models as shown on your Types of Volcanoes Worksheet.
2. You need two different colors of Playdough: one to represent cinders, one to represent lava.
3. Using the Volcano Worksheet and the information below, construct each type of volcano.

Cinder Cone/Tuff Volcano:

Loosely arranged
Not very high
Overall slope of 30-40°
Made of cinders, bombs, ash, dust
Smallest and steepest type of volcano

Shield Volcano:

Made of Quiet Lava
Large areas covered
Base of 2° and Summit of 10°
Gently sloping dome
Largest (by area covered) and flattest

Composite Volcano:

Made of alternate layers of cinders and lava
Base of 5° and Summit of 30°
Tallest of all volcano types (medium-sized base)

Summary Questions:

1. Draw a Venn diagram showing similarities and differences between the three types of volcanoes. Put the Venn Diagram on the back of this paper.

2. Different types of volcanic eruptions form different types of volcanoes.

Which type of eruption forms cinder cone volcanoes? _____

shield volcanoes? _____

composite volcanoes? _____

3. Where is the most active volcanic area in the world?

4. What is the general cause for volcanoes to occur?