Volcano Fold Booklet – Due \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For this booklet you will need to include the following information:

1. Volcanic Eruptions – Using a T Chart, list the differences between Explosive and Non-explosive eruptions. (See pages 156 and 157)

Explain how silica content and water affects an eruption (page 158).

1. What Erupts from a Volcano? – Define each of the following words: blocky lava, pahoehoe lava, aa lava, pillow lava, lava blocks, volcanic bombs, lapilli, volcanic ash, pyroclastic flow. (See pages 159 - 161) Along with your definitions, draw pictures to help illustrate the difference between these types of lava and volcanic materials.
2. Volcano Shapes – **In your own words**, explain the difference between shield, cinder cone, and composite volcanoes. Draw a picture to illustrate each type of volcano. (See page 163)
3. Other Types of Volcanic Landforms - Describe how the following form: volcanic craters, calderas, and lava plateaus (See pages 164 and 165).
4. Where Volcanoes Form 1. Explain the Ring of Fire (See page 167). 2. Draw and explain a divergent boundary / rift zone (See page 168). 3. Draw and explain how subduction produces magma (See page 169). 4. Describe two theories that explain hot spots (See page 170).
5. Predicting Volcanic Eruptions – Explain the difference between extinct, dormant, and active volcanoes. Describe four methods of studying and predicting volcanic eruptions. (See pages 170-171)