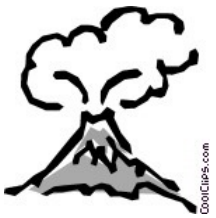
Plotting Volcanoes

Name:

Period:

This exercise will help you see how volcanoes help us to figure out the shape of tectonic plates.



Step 1—Get the 5 pieces of paper that you will use to make your map.

Step 2—Line up the different pieces using the numbers at the bottom points, 1 - 5. Start with piece 1 on the left, then put piece 2 next to it on the right. Overlap the pieces along their centers, using the "glue to panel…" flaps as guides. DO NOT GLUE THE PIECES TOGETHER.

Step 3—You are going to be plotting volcanoes on your map. For each volcano, list its location below. Next, draw a triangle on the map where the volcano is found, then color the triangle with a red colored pencil.

Step 4—Use the information from the completed map to answer the questions below.

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1. Plot 10 volcanoes on your map, using data from the Smithsonian / USGS Weekly Volcanic Activity Report found at http://volcano.si.edu/reports_weekly.cfm.

volcano name	location

Lab: 7 points

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2. Remember that earthquake epicenters can be used to determine where plate boundaries exist. Look at where you plotted the most recent volcanic activity, using red triangles.

    How many of them were ON or NEAR thin lines of earthquake epicenters? _____

    How many of them were ON or NEAR thick lines of earthquake epicenters? _____

    How many of them were FAR from any lines of earthquake epicenters? _____

3. How does plotting volcanoes help to determine plate boundaries?

4. Imagine that you were very afraid of volcanoes. Where could you go in the world to reduce your chances of experiencing one? Explain your answer.

5. We know that volcanoes are found on many tropical islands. But why are there volcanoes in very cold places, too?

Lab: 7 points