٠		Volcano Type and Location						
	Date: Names:							
	VOLCANO TYPE AND LOCATION							
	INTRODUCTION: Why are some rocks in your yard white while some are black and white and others are blue? If rocks come from beneath the surface of the earth, do different volcanoes produce different lava?							
	Volcanic rock considered high or pink and is called RHYOLIT boundaries where some crust that is considered to have a me grey and is called ANDESITE. well—without rising up toward content (less than 52%), apprending is found at divergent crust where there is a lot of action.	ids to determine the composition of the volcanic rock ne major material present in volcanic rock is SILICA. in silica content (more than 66%) usually appears grey E. This type of material is usually found at convergent al material is subducted and rises to the surface. Rock edium silica content (52%–66%) usually appears dark This material usually appears at subduction zones as the surface. The third type of material is low in silica pears black, and is called BASALT. This material plate boundaries or at HOT SPOTS (areas under the vity, like the Hawaiian Islands). In this activity, we will not types of volcanoes and note their relation to types						
	PROCEDURE: 1. On the attached data sheet, i 2. On the map provided, plot th 3. Plot the volcano at the corre 4. Use the following key to cod + = rhyolite • = andesite • = basalt	dentify each volcano as rhyolite, andesite, or basalt. le different volcanoes listed on page 47. ct longitude and latitude. e the volcanoes:						
G 1.	QUESTIONS:							
2.	Are all volcanoes located along this outline	? Where are the others?						
3.	What is an area, such as that where the str	ay volcanoes are located, called?						
4.	Which type of volcanic material appears:	a. black?						
5. <i>i</i>	At what type of plate boundaries do the follo a. rhyolite? c. basalt?	wing volcanic materials appear:						

Date: N	Names:					
Volcano Location	Latitude	Longitude	% silica	Compositio aluminum	n iron	Rock Type
				a)ulliliana		
1. Lassen, CA	40 N	121 W	57.3	18.3	6.2 ,	
2. Crater Lake, OR	43 N	122 W	55.1	18.0	7.1	
3. Mt. Rainier, WA	47 N	122 W	62.2	17.1	5.1	
4. Mt. Baker, WA	49 N	122 W	57.4	16.6	8.1	
5. Yellowstone, WY	45 N	111 W	75.5	13.3	1.9	
6. Craters of the Moon, ID	43 N	114 W	53.5	14.0	15.2	<u> </u>
7. San Francisco Peaks, AZ	Z 35 N	112 W	61.2	≀ 17.0	5.7	
8. Paricutín, Mexico	19 N	102 W	55.1	19.0	7.3	
9. Popocatépetl, Mexico	19 N	98 W	62.5	16.6	4.9	
10. Mt. Pelée, Martinique	15 N	61 W	65.0	17.8	4.5	
11. Santa María, Guatemala	a 15 N	92 W	59.4	19.9	5.9	
12. Mt. Misery, St. Kitts	17 N	63 W	59.8	18.3	7.3	
13. Cotopaxi, Equador	1 S	78 W	56.2	15.3	9.7	
14. El Misti, Peru	16 S	71 W	60.1	19.0	5.0	<i>n.</i>
15. Katmai, AK	58 N	155 W	76.9	12.2	1.4	
16. Adak, Aleutians	52 N	177 W	60.0	17.0	6.9	
17. Umnak Islands, Aleutiar	ns 53 N	169 W	52.5	15.1	12.8	
18. Kamchatka, Russia	57 N	160 E	60.6	16.4	7.9	
19. Fuji, Honshu, Japan	35 N	139 E	49.8	20.6	11.2	
20. Izu-Hakone, Honshu, Japan 35 N		N 139 E	53.8	14.8	13.0	
21. Mayon, Philippines	13 N	124 E	53.1	20.0	8.2	
22. Krakatau, Indonesia	6 S	105 E	67.3	15.6	4.3	
23. Karkar, New Guinea	5 S	146 E	60.1	16.4	9.6	
24. Mauna Loa, HI	19 N	156 W	49.6	13.2	11.9	
25. Galápagos Islands	1 S	91 W	48.4	15.4	11.8	
26. Mariana Islands	16 N	145 E	51.2	17.3	10.9	
27. Auckland, New Zealand	d 38 S	176 E	49.3	15.6	11.9	
28. Tahiti	18 S	149 W	44.3	14.3	12.4	
29. Samoa	13 S	172 W	48.4	13.3	12.3	
30. Surtsey, Iceland	63 N	20 W	50.8	13.6	12.5	
31. Mid-ocean Ridge	60 N	18 W	48.2	16.5	11.7	
32. Kilimanjaro, Tanzania	3 S	37 E	45.6	10.3	12.6	
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