

PLATE TECTONICS LAB: EARTHQUAKES AND VOLCANOES MAPPING

Diagram the following volcanoes on your plate puzzle using a little "Δ" symbol for a volcano & a "o" for earthquakes. By each volcano, record the NAME, by each quake just write the number. Ignore the depth.

Famous Volcanoes

1	Katmai	158°W	54°N
2	Redoubt	164°W	51°N
3	Ranier	123°W	43°N
4	St.Helens	124°W	42°N
5	Hood*	123°W	40°N
6	Shasta	122°W	38°N
7	Lassen	121°W	36°N
8	Sunset Crater*	111°W	34°N
9	Pelee	68°W	13°N
10	Parícutin	102°W	17°N
11	Mauna Loa**	161°W	16°N
12	Kilauea*	161°W	16°N
13	Irazú	83°W	8°N
14	Misti	70°W	20°S
15	Surtsey	20°W	61°N
16	Stromboli	13°E	35°N
17	Aetna	14°E	35°N
18	Kilimanjaro	38°E	8°S
19	Krakatoa	107°E	10°S
20	Taal*	122°E	11°N
21	Mayon*	123°E	12°N
22	Aso	132°E	27°N
23	Fujiama	136°E	30°N
24	Cotopaxi	78°W	2°S
25	Nevado Del Ruiz	76°W	6°N
26	Unzen	130°E	33°N
27	Pinatubo	122°E	16°N
28	Vesuvius*	14°E	40°E
29	Reunion	55°E	21°S

Plot 3 of your own volcanoes, list the name, latitude, & longitude.

28 _____

29 _____

30 _____

Recent Earthquakes w/ magnitude 5.2 or greater.

	°LAT	°LONG	DEPTH*
1	58 N	137 W	13.3

2	9 S	109 E	33.0
3	11 S	165 E	33.0
4	21 S	174 W	33.0
5	21 S	174 W	33.0
6	52 N	176 W	33.0
7	61 S	154 E	10.0
8	37 N	135 E	388.9
9	2 S	138 E	33.0
10	24 S	65 W	22.5
11	48 N	155 E	33.0
12	0	100 E	50.0
13	24 S	68 W	127.1
14	18 N	101 W	45.3
15	11 S	166 E	33.0
16	2 N	128 E	66.9
17	6 N	82 W	10.0
18	31 S	178 W	33.0
19	18 N	120 E	33.0
20	28 S	177 W	33.0
21	6 S	75 W	26.6
22	39 N	66 E	33.0
23	56 S	147 E	10.0
24	56 S	147 E	10.0
25	16 S	168 E	33.0
26	2 S	138 E	33.0
27	22 S	172 E	107.2
28	35 N	1 W	10.0
29	11 S	166 E	33.0
30	32 N	132 E	42.3

Once you have plotted ALL of the quakes and volcanoes, answer these questions.

1. What is the shape of the assembled puzzle? (Gotta start easy, no?)
2. What do the pieces of the puzzle represent?
3. What is the relationship between the quake positions and the outline of the continents?
4. Describe how the locations of quakes are related to plate boundaries.
5. Which ocean has volcanoes on a N©S line near its mid©point?
6. Which ocean has a ring of volcanoes about it?
7. What general pattern occurs in volcano locations?
8. Show the names of all the major plates
9. What relationship occurs between where earthquakes and volcanoes occur and the edges of the plates?
10. What relationship occurs between where earthquakes and volcanoes occur?
11. Draw arrows down the middle of the Atlantic showing the African Plate and South American Plate moving apart.
12. Draw arrows showing the North American plate moving WSW and the Pacific plate moving NNW.