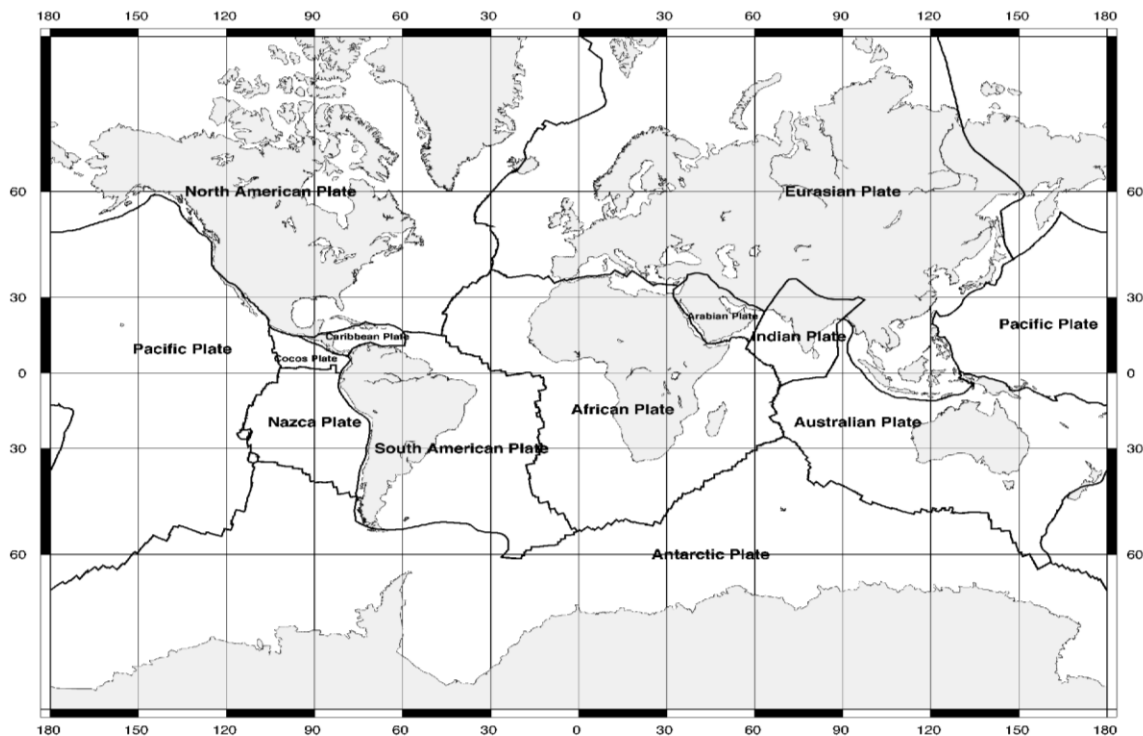


Google Earth: Plate Boundaries Tour

Directions: On Mr. Collins' homework page, look for the link for the "USGS Plate Boundaries" file. This should open in Google Earth. Once it does, follow the steps below, and answer the questions.

Part 1 → Plate Boundaries: In the "Layers" menu, uncheck the box for "Borders and Labels". You can turn this on again if you need to find out what county or state you're in.

- 1) Look at the plate boundaries now found all over the globe. Notice that there are lines in three different colors, each corresponding to a different type of plate boundary (convergent, divergent, and transform). On the map below, trace the plate boundaries using colored pencils to show the three boundary types. **Then, make a key below the map.**



KEY

- 2) Zoom out so you can see the entire globe. Spin the Earth around and compare the relative sizes of the tectonic plates. Which plate is by far the largest?
- 3) Name four tiny plates:

- 4) Spin the Earth and zoom in so that the United States takes up most of the screen. Observe the differences between the east and west coast. Explain why we don't have earthquakes and volcanoes in Pennsylvania:

- 5) Find the Juan de Fuca plate and the Cascadia subduction zone. Which two states in this area have a long-term risk of deep subduction zone earthquakes? What other related natural disaster might coastal residents in this region have to worry about?

Part 2 → Geographic Features: Type in each set of coordinates into the Google Earth search bar. Then, write a basic description of where in the world this places you (e.g. “western Australia” or “middle of the Pacific Ocean”, etc.) Then write down the type of plate boundary (C, D, or T). **If convergent, make sure to specify if it's oceanic/continental, oceanic/oceanic, or continental/continental.**

	Latitude/ Longitude	Description of location:	Type of plate boundary:
1	35.909°S 72.733°W		
2	27.988°N 86.925°E		
3	38.322°N 142.369°E		
4	35.900°N 120.433°W		
5	0.00°N 20.00°W		
6	3.07583°S 37.35333°E		
7	46.191°N 122.194°W		
8	11.329°N 142.206°E		