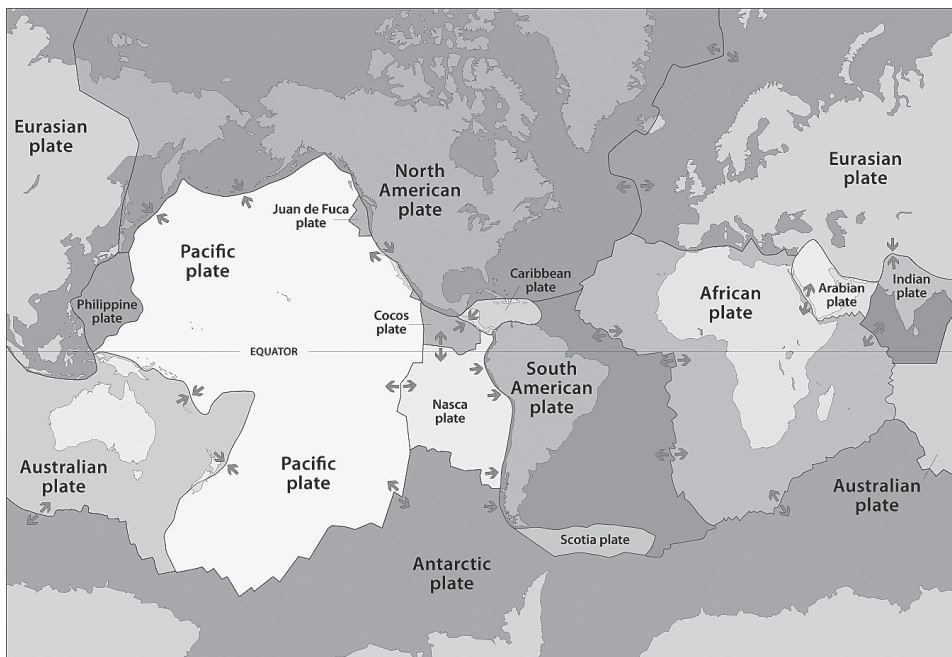


LAB 6

Checkout Questions

Lab 6. Plate Interactions: How Is the Nature of the Geologic Activity That Is Observed Near a Plate Boundary Related to the Type of Plate Interaction That Occurs at That Boundary?

Use the map below to answer questions 1 and 2.



1. On the map above, circle one convergent boundary, one divergent boundary, and one transform boundary. Be sure to label each one. How do you know which boundary is which?
2. Earthquakes occur much more frequently in California than they do in Florida or New York. Using what you learned from your investigation and the map above, why is this the case?

Plate Interactions

How Is the Nature of the Geologic Activity That Is Observed Near a Plate Boundary Related to the Type of Plate Interaction That Occurs at That Boundary?

3. The map below shows the location of a volcanic arc in Central America. Each triangle represents the location of a different volcano.



- a. What type of boundary is responsible for this volcanic arc and where is it most likely located?
- b. How do you know?

LAB 6

4. Scientists share a set of values, norms, and commitments that shape what counts as knowing, how to represent or communicate information, and how to interact with other scientists.
 - a. I agree with this statement.
 - b. I disagree with this statement.

Explain your answer, using an example from your investigation about plate tectonics.

5. The statement “There were 31 earthquakes at the convergent boundary” is an example of an inference.
 - a. I agree with this statement.
 - b. I disagree with this statement.

Explain your answer, using an example from your investigation about plate tectonics.

Plate Interactions

How Is the Nature of the Geologic Activity That Is Observed Near a Plate Boundary Related to the Type of Plate Interaction That Occurs at That Boundary?

6. Scientists often need to look for patterns that occur in the data they collect and analyze. Explain why identifying patterns is important for scientists, using an example from your investigation about plate tectonics.
7. Natural phenomena occur at varying scales. Explain why scientists need to consider using different measurement or time scales when deciding how to collect and analyze data, using an example from your investigation about plate tectonics.