

Physical Geology Video Lab

Part THREE: Physical Geology Video Library

Use the Video Library along with parts 1 and 2 of the Physical Geology Lab to answer these questions. Watch the videos first, and then try to answer these questions as best you can in your own words. If the questions seem difficult, that's O.K., they're supposed to be.

1. What are the deepest parts of the ocean, where are they located, and how do they form? Find a diagram that illustrates your explanation and paste it here. Which videos were the most helpful in answering this question?

2. How does heat inside the Earth power our planet's dynamic processes (plate movement, earthquakes, volcanoes, mountain building, and formation of the atmosphere, weather and climate)? How is this heat essential for life on Earth? Find a diagram that illustrates your explanation and paste it here. Which videos were the most helpful in answering this question?

3. Why are we not able to make direct observations of the Earth's core? Describe some ways we learn about the core of the Earth using laboratory models and seismic waves. What have we learned about the core? Which videos were the most helpful in answering this question?

4. The interior of the Earth contains more water than all of the oceans, lakes, rivers, snow, and ice on the surface. It's true!! How can this be? How does it get there? How does it get back to the surface? What would happen if all of that water came to the surface at once? Which videos were the most helpful in answering this question?

5. Compare and contrast: How are hot spot volcanoes (such as the Hawaiian Islands) and super volcanoes (such as at Yellowstone) similar and how are they different? Consider: how they formed / how they are useful / how they are destructive / how they affect life on earth). Find a diagram that illustrates your explanation and paste it here. Which videos were the most helpful in answering this question?