

Materials List:

GEOLOGY TOPICS UNIT

The materials needed for this unit are presented in chronological order as the unit progresses. Many lab activities can be presented as demonstrations if you are short on equipment.

- 1.) **Computer that runs Powerpoint.**
- 2.) **LCD Projector (For Classroom Teachers)**
- 3.) **Powerpoint remote for advancing slides (Recommended! - Unit has 2200+ slides)**
- 4.) **realPlayer for videos**
<http://www.real.com/realplayer/search>
- 5.) **Marbled Science Journal (Class Set)**
- 6.) **Old Magazines with pictures so students can cut out a page with mostly pictures to create a puzzle and introduce plate tectonics. (Scissors – Class Set)**
- 7.) **Google Earth (Optional) – Download at google.com to show the continental shelf.**
- 8.) **Scissors to cut out printed sheets of continents to arrange into Pangea and then drift away into current positions.**
- 9.) **Hard Boiled Eggs (Class Set) or single egg and camera connected to projector for class demonstration. Sounds of surgery that provided for the dissection of the earth can make the activity suspenseful. Some tools such as butter knives and forks for cutting through egg.**
- 10.) **Slinky / spring coil (The longer the better) for showing waves. Demonstration works well or class set.**

- 11.) (Optional) Hot plate and sauce pan for describing convection, conduction, and radiation. I usually cook up some food on the side. The white background provided on a slide works well to show the heat rising in convection.**
- 12.) Small Foam pads or other manipulative (clay would work) to demonstrate various plate boundaries. (Textbooks or magazines could also work)**
- 13.) Paper 8.5 x 11.5, sand, and rulers for mountain building activity (Table groups),**
- 14.) Hot Spot Activity. Markers, Poster boards (Table Groups) and tables.**
- 15.) Viscosity Activity – Table Groups – Wax paper, various household condiments, stopwatches, sturdy material to create inclined plane off of some stacked textbooks.**
- 16.) (Optional) Building a volcano – Partners works well – Film canisters enough for class, clay, food coloring, dishwashing soap, baking soda, vinegar.**
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