

1. Why do most of the Pb, Ni, and Fe go toward the center of Earth instead of staying on the surface?
2. Why does granite form the floating continents? (Be patient. This is covered at least twice in the film.)
3. What is significant about the presence of pillow lavas at 3.5 billion years ago?
4. What did Alfred Wegener notice that started him thinking that continents drifted?
5. Why did scientists (including Alfred Wegener himself) reject his theory?
6. What is crazy about Iceland and how fast is that happening?
7. What happens tectonically when a continent gets too large?
8. Draw and describe what happens at a subduction zone.
9. What were Kaapvall, Rodinia, Gondwana & Pangea?
10. How did having one supercontinent change the climate and why was this so? (Compare this with an island.)
11. At 30:40 in the film, 100 MYA, could you have been an early Forrest Gump & run from Canada to S. America? Why?
12. What happens if two plates with light rock collide and neither will subduct? (Hey, Ron Blakey is a geology professor at NAU!)
13. How did those marine fossils get to 7,000' > sea level elevation at the Grand Canyon? Did they hike? Was it fast?
14. Describe two ways that plate motion affects humans. a) _____ b) _____
15. Why don't we just stop plate motion?
16. At 40:26, is Arizona in big trouble from activity at plate boundaries? Why?
17. Should people move out of New York due to plate tectonics now? Why?
18. Write one geology-related question you have related to the film or tell one thing you learned or liked about the film.