

Inside Planet Earth Video Questions

Earth Science

Mr. Traeger

Name: _____ Period: _____ Date: _____

1. Why is it so difficult to see in to the interior of the Earth? (2:45)
2. What effect does gravity have on the interior of our planet and our atmosphere? (5:30)
3. What are the two places that Earth gets its energy from? (7:00)
4. What happens to temperatures and pressures as you head deeper in to the Earth? (10:00)
5. How does the crust respond to heat from below? (12:00)
6. How did the Carboniferous Period contribute to lower CO₂ and higher O₂ concentrations? How did this affect body size of organisms? (15:00)
7. How does coal form? (18:00)
8. How can life forms live in extreme environments? What does this suggest about the origins of life? (22:00)
9. What is the farthest down that humans have ever drilled in to the Earth? (24:00)
10. How did stromatolites contribute to the formation of iron ore in earth's crust? (29:00)
11. What is the chemical makeup of the mantle? (33:00)
12. Why is mantle material compared to the consistency of fudge? (34:00)
13. How are diamonds formed? (36:00)
14. How do Earthquakes occur? (41:00)
15. What do we use to find out about the interior structure of the Earth? (42:00)

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16. What happens when oceanic crust meets continental crust? (44:00)

17. How were the Hawaiian Islands formed? (49:00)

18. What are the hazards associated with the mantle plume under Yellowstone National Park? (51:00)

19. What is creating Earth's magnetic field? (54:00)

20. Why is Earth's magnetic field absolutely critical to sustaining life on Earth? (57:30)

21. What would happen if the convection in Earth's outer core shut down? (1:02:00)

22. What are we seeing happen to the Earth's magnetic field right now? (1:04:00)

23. When did the last magnetic reversal on our planet take place? (1:07:00)

24. What is happening to the inner core of the Planet as heat is transferred from the inner to the outer core? (1:09:00)

25. How can iron rich meteorites tell us about how the interior cores of planets like Earth form? (1:16:00)

26. The surface of Mars has rocks that are highly magnetized, but its overall magnetic field generated by its core is weak. What does this tell us about the past magnetic field of Mars? How does this tell us about Earth's own potential fate with respect to its magnetic field? (1:18:00)

27. What is the very center of the Earth like? (1:23:00)