

Journey to the Center of the Earth



You will need to use Earth Science Reference Tables to answer some of the following questions. Take notes as you enjoy the movie. Then go back and fill in the answers.

1. What fossil is in the opening scene? (Latin please) _____
+
2. This fossil is an index fossil for what era? _____ what period? _____
+
3. Fossils are found in only what type of rocks? _____
+
4. The hole that Trevor's brother falls into in the dream occurs where on Earth?

+
5. The balls that fall to the ground when the yo-yo hits them are a model of what? _____
+
6. Volcanic tubes that go past the mantle toward the center of the Earth and form volcanoes are called _____
+
7. Could a human really survive in one of these? _____
+
8. When does the yo-yo have centripetal force? _____
+
9. Pb is what element in the periodic table? _____
+
10. Why is lightning attracted to the seismic sensor that Trevor is holding?

+
11. What process forms caves? _____
+
12. The generator in the mine turns _____ energy into _____ energy.
+
13. Is it realistic that the mine carts could jump over the hole in the track? _____
Explain why or why not? _____
+
14. Which of Newton's Laws does the cart crashing into the wall represent?

+
15. The following are mentioned in the movie: Schist, Emeralds, Rubies, Diamonds, Feldspar, and Muscovite. Which are rocks and which are minerals?
+
+
+
- BONUS: What is Magnesium? _____
+
16. What physical property of muscovite worries Hannah and Trevor? _____

17. What distinguishing characteristic of muscovite worries Hannah and Trevor?

18. What is muscovite's chemical formula? _____

19. What property of the inner core of the Earth would make it impossible for living things to exist there? _____

+

20. If there was a world at the center of the Earth, would a compass work? _____

+ Why or why not? _____

21. Why did Sean spit out the water on the beach? _____

+

22. What does the goo in the carnivorous plant do? _____

+

23. What body system in an animal would this be a part of? _____

+

24. Why are Trevor and Sean's faces green when they enter the geyser? _____

+

25. Is it lava or magma when Trevor looks down the geyser hole? _____

+

26. When Trevor, Hannah, and Sean are sliding in the dinosaur skull down through the grapes vines would they have gone far, fast and come to an abrupt stop as shown in the movie? _____

Why or why not? _____

+

27. Rate the movie on a scale of 1 to 10. _____

+

28. Would you recommend the movie to a friend? _____

+

29. Name one other science observation about the movie. (any science: earth, physics, chemistry, biology)