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 lighting 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?

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)