

Video: Planet Earth, The Living Machine

Earth Science

Mr. Traeger

Name: _____ Period: _____ Date: _____

1. What is the Theory of Plate Tectonics?
2. How can the Grand Canyon reveal the history of the Earth?
3. What was James Hutton's big discovery?
4. Who was Alfred Wegener? What did he do?
5. What was Pangaea? How long ago did it exist?
6. What did scientists discover in the Middle of the Atlantic Ocean?
7. What is seafloor spreading?
8. How can rock samples record the magnetic field of the earth?
9. What did Vine and Matthews discover on the Sea Floor at the Mid-Atlantic Ridge?
10. How does the age of rock change the farther you go away from the Mid-Atlantic Ridge?

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11. Describe the 3 ways in which the Earth's plates interact by drawing arrow diagrams?

Convergent		Divergent	Transform
Subduction	Collision		

12. What are the results of subduction?

13. How were the Himalaya Mountains formed?

14. What kind of plate boundary is the San Andreas Fault?

15. What is thought to be the driving force for plate tectonics?

16. Describe how the Hawaiian Islands formed from hot spots in the middle of the Pacific Plate.

17. What happened in New Madrid, Missouri in 1812?

18. How do fossils support the theory of Plate Tectonics?

19. Are the continents like puzzle pieces? Explain.

20. How does the movement of continents influence the migration patterns of sea turtles?