**Earth Story: The Deep**

[**https://www.youtube.com/watch?v=RIQ9ttnJQWQ**](https://www.youtube.com/watch?v=RIQ9ttnJQWQ)

1. Where did Wegener think he found the evidence for Continental Drift?

2. What fossil helped support Wegener’s theory of Continental Drift?

3. When did Wegener first publish his ideas?

4. What couldn’t Wegener explain with his theory?

5. How did people explain how animals might have traveled from one continent to another?

6. What tool did the military use to map the ocean floor?

7. Piecing together the echo-soundings revealed the existence of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ running down the center of the ocean.

8. How many kilometers did this mountain chain stretch?

9. What is the name of the unusual feature at the crest (center) of the ridge?

10. What 2 things were learned from seismic profiling?

1.

2.

11. What 2 things did they learn about the rocks on the ocean floor by dredging the ocean floor?

1.

2.

12. What pattern do the positive and negative magnetic anomalies make on the ocean floor?

13. What did Harry Hess describe at the lecture in 1962?

14. What element did Hess leave out of his lecture?

15. What did the computer tell Vine?

16. How are magnetic flips recorded?

17. What did the magnetic reversal explain?

18. What did this hypothesis of magnetic reversal predict?

19. What did sea floor spreading explain that Wegener could not?

20. What feature that no one had seen was at the heart of the theory of sea-floor spreading?

21. How much pressure can Alvin withstand?

22. How old is the rock in the lava lake where Alvin reached the bottom?

23. What created white staining on the bottom of the ocean?

24. How hot was the black smoker?

25. What lives around the hydrothermal vents/smokers?

26. What shape is lava that cools underwater?