

Name _____ Date _____ Period _____

GEOSPHERE UNIT INTERVENTION

Because you scored lower than proficient on the Geosphere Unit Test, you will need to read through the following sections of this online text from the Utah Core for Earth Science and answer the questions in order to try and learn more about the topics of this unit. *When you are done, turn it in to your teacher. You will have until the end of school on the last day of the term to turn this Intervention assignment in to your teacher.*

Go to dixiemiddlescience.weebly.com – Earth and Space Science – ESS.2 Geology – scroll to today's date and click on the black button labeled GEOSPHERE INTERVENTION

Original Unit Test Score _____

Utah Sci-ber Text

What's Under the Cover:

1. If we think about a volcano, what must Earth be like on the inside?
2. How did Earth probably get hot during its formation?
3. How does Earth make its own heat?
4. What are the two sources of Earth's internal heat?
5. How do scientists know about and study the inside of the Earth if they cannot go there?
6. How is Earth's magnetic field a clue as to the composition of the Earth?
7. How are meteorites a clue to Earth's interior composition?
8. How do scientists get an estimate for the age of Earth?

The Earth's Layers

9. What are the layers of Earth based on different composition (3)?

10. What are the layers of Earth based on different physical or mechanical properties (5)?

11. What is convection? How does it help move material in the mantle of Earth?

It's all Very Puzzling

12. Who was Alfred Wegener?

13. What evidence did Wegener have for continental drift theory?

14. Why didn't people accept Wegener's theory at first?

A Lot on my Plate

15. What kind of evidence and explanation does plate tectonics theory offer in addition to the evidence for continental drift?

16. How did magnetic stripes form on the ocean floor? How are they evidence for plate movement?

Where O Where did my Boundary Go (Click on the map link in the second paragraph. You will notice a couple of maps of the tectonic plates and some definitions and models of the three types of plate boundaries. Read about these boundary types and roll over the examples in the key of the bottom map to see where some of these boundaries are located on Earth.)

17. Locate 10 on the major tectonic plates and name them below.

We all Have Boundaries

18. Describe the three types of plate boundaries and the direction of plate movement at each.

19. What is subduction? Why does it happen?

20. How is the location of earthquakes evidence for plate tectonics?

21. What is convection?

22. How does convection relate to density?

23. How does convection help move the plates?

Round and Round We Go

24. What is a hot spot volcano?

25. What information can hot spot volcanoes give scientists about plate movement?

Cause and Effect

26. Fill in the correct information by clicking on the dropdown list to identify the causes and effects of plate motion.

Boundary Type	Events Triggered	Landform created	Effect on Climate
Divergent			
Transform			
Convergent uplift			
Convergent Subduction			