1=No clue 2=Would need help 3=Can do it on my own. 4=Totally get it! 5=I could teach this.

Name:_____Date:_____Hour:_____

Unit 3: *E2.1B, E2.2C*, E2.2A, *E2.2C*, E3.p3A, E3.p3B, E3.p3C, E3.3A, *E3.3B*, E3.3C, E3.3d, E3.4A, *E3.4B, E3.4C*, E3.4d, E3.4e

1. *I can analyze the interactions between the major systems (geosphere, atmosphere, hydrosphere, biosphere) that make up the Earth. - Unit 1*
   Pre: 1 2 3 4 5
   Post: 1 2 3 4 5

2. *I can explain, using specific examples, how a change in one system affects other Earth systems. - Unit 1*
   Pre: 1 2 3 4 5
   Post: 1 2 3 4 5

3. I can describe the Earth's principal sources of internal and external energy (e.g., radioactive decay, gravity, solar energy).
   Pre: 1 2 3 4 5
   Post: 1 2 3 4 5

4. *I can describe natural processes in which heat transfer in the Earth occurs by conduction, convection and radiation. - Unit 2*
   Pre: 1 2 3 4 5
   Post: 1 2 3 4 5

5. I can describe geologic, paleontologic, and paleoclimatologic evidence that indicates Africa and South America were once part of a single continent.
   Pre: 1 2 3 4 5
   Post: 1 2 3 4 5

6. I can describe the three types of plate boundaries (divergent, convergent, and transform) and geographic features associated with them (e.g., continental rifts and mid-ocean ridges, volcanic and island arcs, deep-sea trenches, transform faults).
   Pre: 1 2 3 4 5
   Post: 1 2 3 4 5

7. I can describe the three major types of volcanoes (shield volcano, stratovolcano, and cinder cones) and their relationship to the Ring of Fire.
   Pre: 1 2 3 4 5
   Post: 1 2 3 4 5

8. I can explain how plate tectonics accounts for the features and processes (sea floor spreading, mid-ocean ridges, subduction zones, earthquakes and volcanoes, mountain ranges) that occur on or near the Earth's surface.
   Pre: 1 2 3 4 5
   Post: 1 2 3 4 5

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9. *I can explain why tectonic plates move using the concept of heat flowing through mantle convection, coupled with the cooling and sinking of aging ocean plates that result from their increased density. - Unit 1* Pre: 1 2 3 4 5

Post: 1 2 3 4 5

10. I can describe the motion history of geologic features (e.g., plates, Hawaii) using equations relating rate, time, and distance. Pre: 1 2 3 4 5

Post: 1 2 3 4 5

11. I can distinguish plate boundaries by the pattern of depth and magnitude of earthquakes.
Pre: 1 2 3 4 5

Post: 1 2 3 4 5

12. I can use the distribution of earthquakes and volcanoes to locate and determine the types of plate boundaries. Pre: 1 2 3 4 5

Post: 1 2 3 4 5

13. *I can describe how the sizes of earthquakes and volcanoes are measured or characterized. - Unit 2* Pre: 1 2 3 4 5

Post: 1 2 3 4 5

14. I can describe the effect of earthquakes and volcanic eruptions on humans. - Unit 2
Pre: 1 2 3 4 5

Post: 1 2 3 4 5

15. I can explain how the chemical composition of magmas relates to plate tectonics and affects the geometry, structure, and explosivity of volcanoes.
Pre: 1 2 3 4 5

Post: 1 2 3 4 5

16. I can explain how volcanoes change the atmosphere, hydrosphere, and other Earth systems. Pre: 1 2 3 4 5

Post: 1 2 3 4 5