

Name \_\_\_\_\_

# Earth's Systems Study Guide

## FILL IN THE BLANKS

1. evaporation is a process in the water cycle where water vapor rises into the atmosphere.
2. When plants give off water vapor it is called transpiration.
3. Pangaea is the name for the supercontinent that existed 250 million years ago.
4. The answer for number 3 translates to Whole Earth super continent.
5. Melted rock that is beneath Earth's surface is called Magma.
6. Melted rock that is on Earth's surface is called Lava.
7. A biome where you will find no life is desert ~~polar ice~~ biome.
8. How is sedimentary rock formed? they are weathered rocks that deposited and compacted and cemented
9. The rock cycle process of dropping material into a new place is called deposition.
10. High heat and pressure can change rocks into metamorphic rock.
11. Prove that you have every sphere in you? Yes - i have bio because i'm living, geo because of mineral, atmo because we breathe, and hydro because we're about 70% water
12. What part of the water cycle is rain, sleet, hail, and snow? precipitation
13. What is weathering? breaking downs with water, ice, wind, plants, chemicals

14. The theory of Plate Tectonics replaced the earlier theory by Alfred Wegener called

Continental drift ✓

15. Convergent boundaries can be broken into two different types.

Convergent continental which is two continental plates coming together, forming mountains

✓

The other is convergent subduction which is where one plate is ocean, and the other is continental, and they come together, forming trenches (ocean goes under) ✓

16. You would find satellites in the ~~X~~ atmosphere ~~thermo~~ sphere.

17. What is the difference between intrusive and extrusive igneous rock?

Intrusive is inside the earth, extrusive is outside ✓

18. Three major causes for erosion are gravity, wind, water

✓

19. How would you describe the atmosphere?

protective layer of gasses and without it, it would be too hot/too cold ✓

20. What are the broken sections of Earth's crust are called tectonic plates ✓

21. What layer of the atmosphere closest to Earth? tropo ✓

22. What layer of the atmosphere farthest to Earth? exo ✓

23. In what biome do polar bears live? tundra ✓
24. What is the difference between deciduous trees and coniferous trees and what do those words mean?  
deciduous means broad  
means evergreen / cone bearing ✓  
coniferous
25. What makes a desert a desert? very dry, little to no life,  
almost no rain ✓
26. Which biome has the most fertile soil and why? ~~temperate deciduous forest~~ Rain forest ✓ X
27. savanna ✓ biome does not have snow and ice.
28. What is a divergent boundary and what does it create? ~~convergent~~ boundaries  
making apart, makes ridges ✓
29. What is a transform boundary and what does it create? It's when  
plates slide past each other, makes  
earthquakes ✓
30. Why would you only find fossils in a sedimentary rock? because  
you can't in the other ✓ X

31. Describe the rock cycle? the rock cycle is how  
sedimentary, metamorphic, and igneous  
rocks form ✓

32. How many spheres are inside of you? Give examples. all of them,  
for example, No. 11. ✓

33. What are the steps in the water cycle?  
evaporation, water vapor, transpiration,  
precipitation, surface runoff, infiltration,  
ground water, condensation ✓

34. Tell me about something that you found surprising or interesting in this unit. Don't say nothing. Tell me about something.

I thought it was interesting how  
the rock cycle worked, the water  
cycle too.