

# Honors Earth & Space Science: Final Exam Study Guide

## Chapter 1 Maps

1. Which of Earth's spheres do mountains, lakes, trees, clouds, ice, and snow represent?
2. The Mercator projection map shows Earth's features on a grid. Why is this map useful to sailors?
3. Why is the contour interval included on a topographic map?
4. What types of factors make up our nonliving environment?
5. As part of the Great Plains of the United States, the topography of the state of Kansas is relatively flat. On the other hand, portions of the state of Colorado are mountainous. Describe how the contour interval and the contour lines might vary on topographic maps of these two states.
6. If 1 kilometer is equal to 1 centimeter on the map, what is the distance in km between two cities that are 7.5 cm apart?
7. Recall that Earth is divided into 360 degrees. If you travel to a location that is 90 degrees starting from the prime meridian, how far around the globe have you gone? What about a location that is 120 degrees from the prime meridian?

## Chapter 3 Igneous, Sedimentary & Metamorphic Rocks

8. Use what you have learned about the rock cycle to explain the following statement: One rock is the raw material for another rock.
9. Which igneous rock forms when basaltic lava hardens? When basaltic magma hardens?
10. A rock has a porphyritic texture. What can you conclude about the rock?
11. Explain three types of weathering.
12. Distinguish between regional and contact metamorphism.
13. Is it possible for two different types of igneous rocks to have the same composition and the same texture? Explain.
14. Compare and contrast the two types of sedimentary rocks and give at least two examples of each type.
15. Think about the sediments that compose both conglomerate and breccia. What one sedimentary process makes these two rocks different? Explain.
16. Compare and contrast the effects of heat and pressure in the formation of metamorphic rocks.
17. Explain a process that might change a sandstone into a quartzite.
18. In what ways do metamorphic rocks differ from the sedimentary and igneous rocks from which they form?
19. Your friend shows you a rock with distinct layers. How can you and your friend determine if the rock is a sedimentary rock or a metamorphic rock?

## Chapter 9 Plate Tectonics

20. What are the three types of convergent plate boundaries?
21. Briefly explain the theory of plate tectonics.
22. How have earthquake patterns been used to support the theory of plate tectonics?
23. At what location is most lithosphere created? At what location is most lithosphere destroyed?
24. What feature produces volcanoes that do not occur at plate boundaries?
25. At what types of boundaries do subduction zones form?
26. In the Atlantic Ocean basin, where would the oldest oceanic lithosphere be found?
27. Describe the evidence that supported the hypothesis of continental drift.
28. Some people predict that California will sink into the ocean. Does this idea fit with the theory of plate tectonics? Explain.
29. Why did the discovery of *Mesosaurus*, in both South America and Africa but nowhere else, support the hypothesis of continental drift?

# Earth Space Science Final Study Guide

**Anthony S. Fauci**



## Earth Space Science Final Study Guide:

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