

(25 pts EXTRA CREDIT)
STUDY GUIDE
Benchmark 3 Midterm

Write a sentence describing each item **in your own words**

Greenhouse Effect:

1. Describe the Greenhouse Effect. (17.2,pg.487)
2. Carbon D_____ (*increases/decreases*) the Greenhouse Effect? (17.2,pg.487)
3. When you take a breath you are breathing in mostly _____ gas. (Fig.2,pg.477)

Earth's Beginning:

4. The Nebular H_____ states that all of the planets in our S_____ System were formed by a spinning cloud of which gases? (1.1, pg.3)
5. What type of dating technique is used to find exact ages of nonliving material? (12.3, pg.348)

Cycles:

6. What role does Denitrifying Bacteria play in the Nitrogen Cycle? (Fig.13,pg.137)
7. Green Plants and Trees remove CO₂ from the air through the process of Ph_____ (pg.85, ¶4)

California Geology:

8. California's farming soil is created by the weathering, E_____, and D_____ of sedimentary rock. (13A.1)
9. "Ores" are mostly formed through (*igneous/sedimentary*) processes? (4.1,pg.98)

Differential Heating:

10. Why is the Equator warmer than the poles? (Fig.7,pg.481)
11. Describe how land/water heat/cool differently. (17.3,pg.489)

Air Masses:

12. What are the 4 most common air masses? (Hint: mP...) (20.1,pg.561)
13. Describe "convection." (17.2,pg.484)

Disasters

14. Which type of plate boundary is associated with faults and quakes?
(9.2,pg.255)
15. Which type of plate boundary is associated with Volcanoes? (9.3,pg.261)

Wind & Storms:

16. The Coriolis Effect and Friction are two forces that change the _____ that wind blows. (19.1,pg.536)
17. Deflection of wind due to the coriolis effect is (*more/less*) in stronger winds. (19.1,pg.535)
18. Why do mid-latitude cyclones spin in circles? (20.2, p.567 bottom).

Ocean Currents:

19. Define "Photos" & "Plankton." (15.2,pg.429)
20. How is density affected by increases in density and salinity? (16.1,pg.451)
21. Where does upwelling occur?(16.1,pg.450)
22. Where would you expect to find the *least* dense ocean water (top/bottom)? (16.1,pg.451)

Atmosphere:

23. What is the greatest cause of "albedo?" (17.3,pg.492)
24. How do Chlorofluorocarbons (CFC_s) affect the ozone layer? (4.3,pg.110)
25. What does Ozone protect us from? (17.1,pg.478)

Make sure to FINISH all questions on your OWN SHEET!

