

Unit 4 Study Guide- Honors

1. How did the geosphere form?
2. What caused early earth to heat up?
3. What is a carbon reservoir and what is the largest carbon reservoir?
4. What is the difference between a carbon sink and a carbon source?
5. What is so special about carbon?
6. What were the primary gases in Earth's early atmosphere?
7. What were the primary gases in Earth's current atmosphere in percentages?
8. What are fossil fuels?
9. How are the three types of fossil fuels made?
10. How does the carbon cycle relate to photosynthesis and cellular respiration?
11. How did the hydrosphere form?
12. What is ocean acidification?
13. How did the atmosphere form?
14. What is the significance of cyanobacteria?
15. How does the atmosphere change as you move toward outer space?
16. Where does all energy come from?
17. What is photosynthesis?
18. What is cellular respiration?
19. What are the stages of photosynthesis? (In order) Include where they take place.
 - a.
 - b.
20. What are the stages of Cellular Respiration? Include where they take place.
 - a.
 - b.
 - c.
21. What are the general inputs and outputs for photosynthesis?
22. What are the general inputs and outputs for cellular respiration?
23. How are photosynthesis and cellular respiration related?
24. What is fermentation?
25. What is the difference between alcoholic and lactic acid fermentation? Provide an example of each.

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