**Unit 4 Study Guide- CP**

**Complete on a separate piece of paper in sentences.**

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

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