**Photosynthesis and Cellular Respiration Review Name:**

1. Explain ocean acidification.
2. Why is carbon so important to living things? (4 macromolecules)
3. Where in the cycle does CO2 get released into the atmosphere?
4. How has the carbon cycle changed since the industrial revolution?
5. Name at least 4 carbon reservoirs.
6. How could a carbon atom inside of fossil fuel become part of an animal?
7. Light energy is converted to chemical energy in what process?
8. Where in a plant does photosynthesis take place?
9. What is the green pigment in plants that is capable of absorbing the sun's energy?
10. Where do plants get the carbon dioxide needed to perform photosynthesis?
11. What are the inputs and outputs of photosynthesis?
12. Write the chemical equation for photosynthesis.
13. What happens to the glucose that is made during photosynthesis?
14. Plants do cellular respiration as well. When do you suppose cellular respiration is happening in plants?
15. What special adaptations might plants that live in the shade have and how would this help them in regards to photosynthesis?
16. What is ATP, and how is it similar to a rechargeable battery?
17. What are the inputs and outputs of cellular respiration?
18. Write the chemical equation for cellular respiration.
19. What causes cramps during exercise?
20. What are the 3 stages of respiration? What is produced from each stage?
21. Which of these require oxygen?
22. What organisms perform some type of cellular respiration?
23. Which stage of cellular respiration produces the most ATP?
24. Throughout cellular respiration NADH is produced. What is this good for?
25. Where do you get the glucose and oxygen needed to perform cellular respiration?
26. What is an anaerobic bacteria?