Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher: \_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_ Date:\_\_\_\_\_\_\_

**General Questions about CO2 Cycling that all students should know:**

1. Write the complete chemical equation for photosynthesis.

2. Explain photosynthesis in words.

3. Write the chemical equation for cellular respiration.

4. Explain the formula for respiration in words.

5. Give at least 3 specific examples of things that release CO2 (g) as a product and give at least 3 specific examples of things that take in CO2 (g) as a reactant.

|  |  |
| --- | --- |
| Release CO2 as Product | Take in CO2 as Reactant |
|  |  |
|  |  |
|  |  |

6. Describe the overall pattern of how respiration and photosynthesis work together. Is this a balancing or reinforcing system? How do you know?

6. During which months would you expect plants to be most actively growing in northern hemisphere? Explain.

7. Explain why the CO2 decreases in the atmosphere from spring into early fall.

9. During which months does the concentration of carbon dioxide most definitely increase?

8. What happens to the carbon when plants lose their leaves or die?

10. Explain why CO2 increases in the atmosphere from early fall into spring of the following year.