**Name:**

**Date:**

**School:**

**Facilitator:**

4.01 The Carbon and Oxygen Cycle

**Directions: Using the information from the lesson, answer the following questions about carbon and its importance to living organisms.**

1. Explain why living organisms are often called “carbon-based life forms.’

2. List 2 carbon compounds found in organisms and their function/importance to the organism.

3. What carbon compound makes up most of the carbon in the atmosphere? Name and describe 2 methods that add this carbon compound to the atmosphere.

4. Explain animals and plants roles in the cycling of carbon and oxygen through the environment. What processes are involved and how are they carried out?

5. Carbon dioxide entering the ocean from the atmosphere continually. Explain how some of this carbon can become “tied up” in the ocean for hundreds and sometimes millions of years. (Hint: think about deep ocean currents, what forms the carbon turns to when it enters the ocean.)