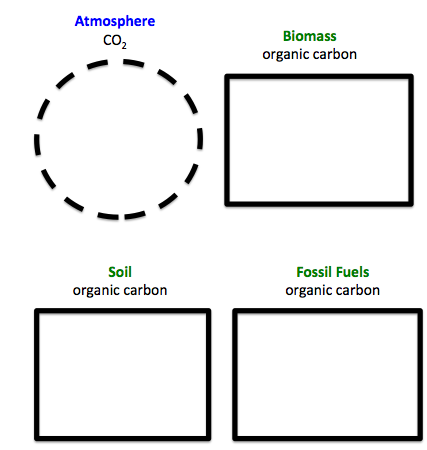
Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_

### Lesson 3.2 The Global Carbon Cycle

1. On the diagram below, label each arrow that represents a process that we have studied. Note that not all of the arrows will be labeled.



1. For each of the processes in the carbon cycle diagram in question 1, identify what form(s) the energy is in before and after the process.

|  |  |  |
| --- | --- | --- |
| **Process** | **Form of energy BEFORE** | **Form of energy AFTER** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. Which part of the carbon cycle is connected to the formation and use of fossil fuels?

* Circle the processes associated with formation of fossil fuels in green. These are processes that happened millions of years ago.
* Circle the processes associated with use of fossil fuels in red. These are processes are happening today at an ever-increasing rate.

1. Explain how use of fossil fuels is increasing the amount of carbon dioxide in the atmosphere and therefore contributing to global warming.