



NAME DATE

I. Use a large sheet of paper and markers to create a carbon cycle that combines the path that each group member experienced during the simulated carbon cycle. Use ovals or circles to represent the carbon **pools.** Use arrows to show how you moved from pool to pool, and label each arrow with the **carbon flux** that took you to the next pool.

For example, one or more students in your group probably went from the atmosphere to the forest through photosynthesis. This means you would draw one oval labeled "atmosphere" and one oval labeled "forests." Then you would connect them with an arrow labeled "photosynthesis."

Carbon fluxes that you may have experienced include:

Breaks Down

Burns (Combustion)

Dissolves

Eaten (Consumption)

Leaves Solution

Ocean Mixing/Circulation

Photosynthesis

Respiration (Plant, Soil, Animal)

Sequestration Waste Production

Example Diagram for Biological Carbon Cycle





CO₂ Mapping Carbon (2 of 2)

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2.	If needed, add additional arrows to represent any realistic pathways (fluxes) between po experienced by your group members. This diagram represents the biological part of	
3.	Add three new carbon pools to the bottom of your group diagram to represent the ge the carbon cycle: Fossil Fuels, Ocean Sediments, and Carbonate Rock / Limestone. Then to describe how carbon moves between the new and existing carbon pools: Heat and C (Combustion), Volcanism (Outgassing), Weathering, Rock Formation, and Sinking.	use the following fluxes
4.	According to your diagram, what are two ways carbon is removed from the atmosphere the pools.	? List these fluxes and
5.	How might each of these pools be affected by increased amounts of carbon dioxide in t	he atmosphere?
6.	How could we change these pools and also remove more carbon from the atmosphere limitations of managing these pools in this way?	?What might be the
7.	What are the implications of developing a piece of land that used to be forested, so that dominate the landscape?	trees no longer