

# The Carbon Cycle

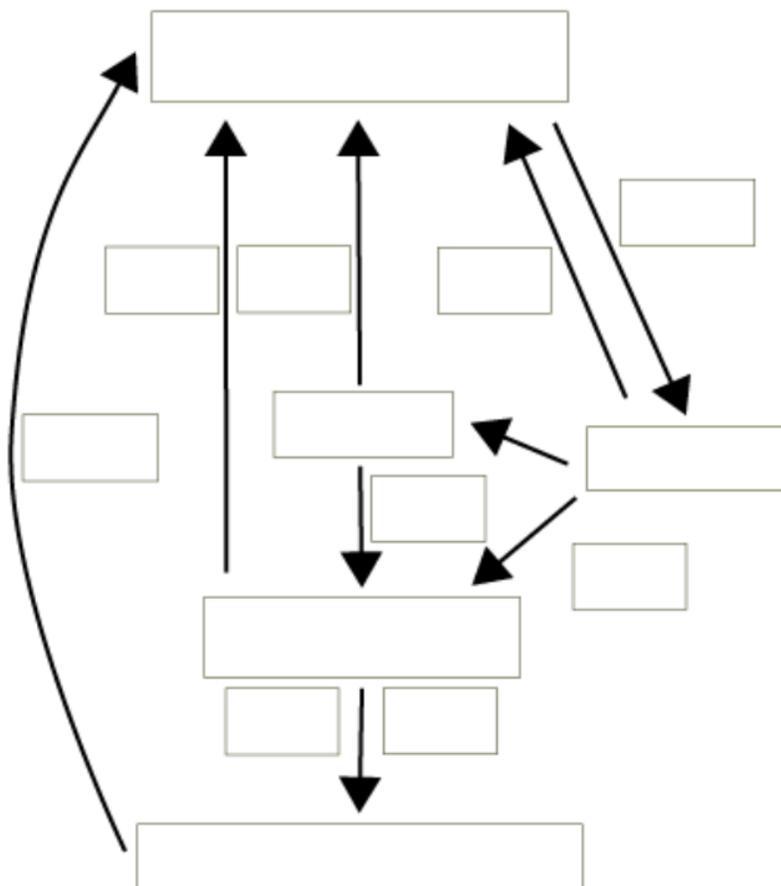
## Real World Ecosystems Learner Worksheet



Name: \_\_\_\_\_

### Part A

Label the diagram, using the terms given in the table to the right of the diagram. Terms can be used one time only, unless otherwise specified. For example, if a term says (x3) after it, that term can be used in three places on the diagram.



### Terms

- Animals
- Atmospheric CO<sub>2</sub>
- Combustion
- Death Decay (x2)
- Detritus
- Fossil Fuels
- Heat
- Photosynthesis
- Plants
- Pressure
- Respiration (x3)

## Part B

In the table below, fill in the blanks in the charts. You must identify if the carbon vapor clue is a sink or source and then describe how the carbon is transformed or released into the next form.

Carbon Caper Clue	Is it a source or a sink?	The carbon is released or transformed by...?
Oceans are a carbon...	Sink	
Carbon rocks are a carbon...		Carbon can be released by drilling
When wood or trees are burned they are a carbon...		
When wood decomposes in the forest it is a carbon...		Decomposition releases carbon into the atmosphere
When volcanoes erupt they are a carbon...	Source	
When we cut down trees they become a carbon...		The trees are no longer able to use CO <sub>2</sub> for photosynthesis. Often wood is burned and releases carbon.
When we travel by car the exhaust is a carbon...		
Trees and plants are a carbon...		

Now that you have thought about sinks and sources, think about the carbon sources in your life. You may be enhancing the sources by the way you travel to school, use electricity, buy products, use paper, and create waste. Then think of an activity to reduce your carbon sources! Fill out the table below.

Enhancing the sources	Me personally	What can I do?
I use electricity	Watch TV and play computer games every day.	Play outside, reduce the time I play computer games and watch TV, and make sure I turn it off when it is not in use.