Notes for Carbon Cycle

- Photosynthesis Using light energy, plants, algae, phytoplankton, and some bacteria remove carbon dioxide from the atmosphere and combine it with water to create glucose.
- Respiration animals and other organisms breathe out carbon dioxide as they break down glucose.
- <u>Decomposition</u> decomposers breathe out carbon dioxide as they consume and break down plant and animal wastes.
- <u>Combustion</u> Carbon dioxide is released into the atmosphere as fossil fuels are burned.
- Fossil Fuels Coal, oil, natural gas are formed from organic matter that is not decomposed and is instead buried in the ground and compressed over millions of years.

 <u>Carbon Sinks</u> – Places on earth where carbon is stored for long periods of time: ocean (largest); oil, coal, natural gas, trees and forests, and permafrost (frozen groundwater).