Carbon Cycle

- 1. Photosynthesis: Plants pull CO2 out of the air
- 2. Respiration: animals breathe in O2 and exhale CO2 or soil releases carbon into the air.
- 3. Consumption: Animals eat plants full of carbon
- 4. Decomposition: Plants and animals die and return Carbon to the Earth.
- 5. 5. Fossil Fuel: Carbon in Earth condenses to create fuels
- 6. 6. Combustion: Burning fossil fuels returns CO2 to atmosphere.

Nitrogen Cycle

<u>Nitrogen fixation:</u> Bacteria converts Nitrogen in atmosphere (N2) to the soil in the form of ammonium (NH3)

<u>Nitrification:</u> Decomposers convert NH3 to nitrites or nitrates.

<u>Assimilation:</u> Plants use nitrates to grow and animals eat the plants to grow

<u>Ammonification:</u> Plants and animals die so N2 returns to the soil and atmosphere.

Denitrification: Dentrifying bacteria releases N2 back into atmosphere.