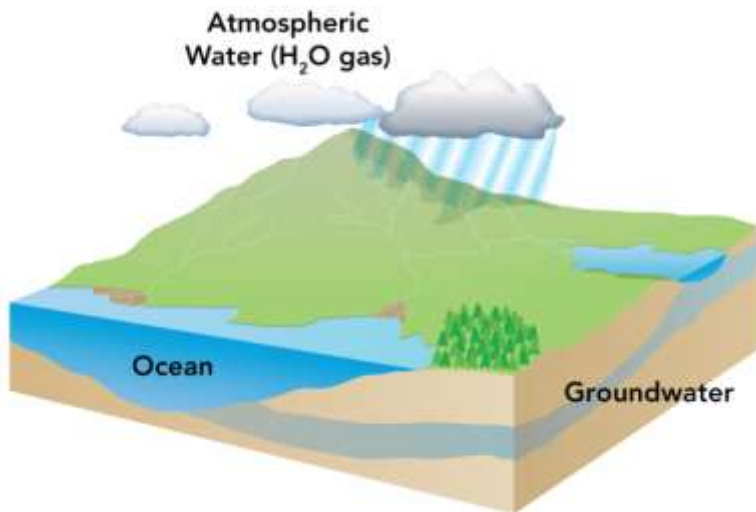
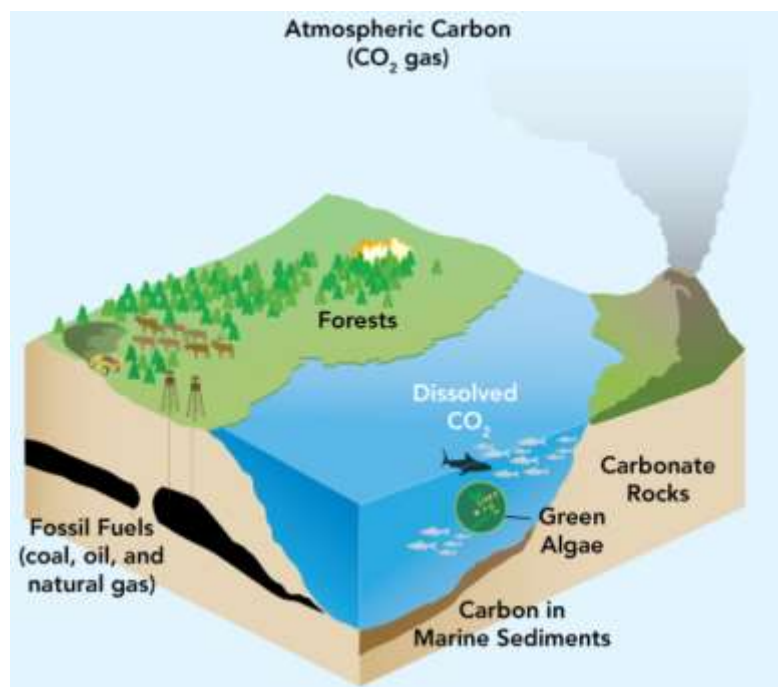


Hydrologic Cycle:

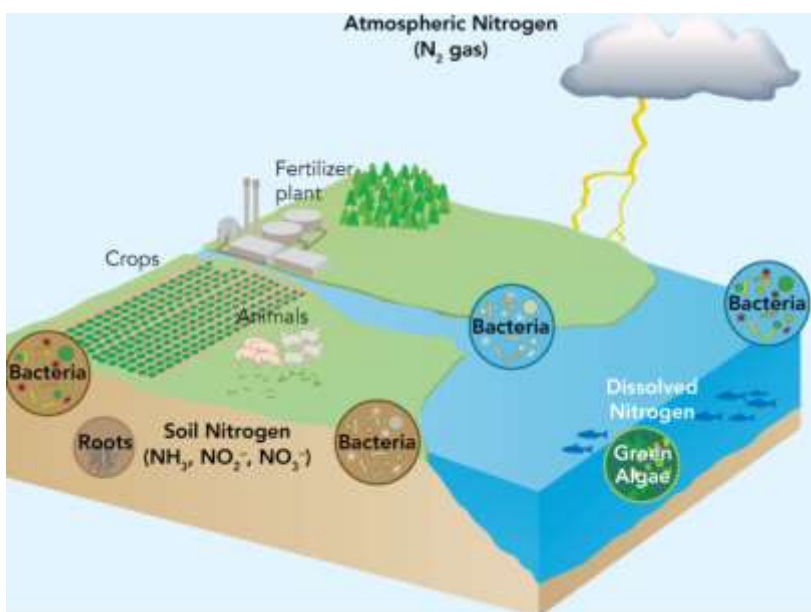


1. **Evaporation:** water vapor enters the atmosphere from land or bodies of water
2. **Transpiration:** water vapor enters the atmosphere from leaves of plants
3. **Condensation:** water vapor in clouds cools and forms droplets
4. **Precipitation:** water droplets fall to land
5. **Runoff:** water flows over land and enters water ways
6. **Groundwater:** water is absorbed by soil and stored underground, where it can be pumped up, or seep into bodies of water

Carbon Cycle:



Nitrogen Cycle:



1. **Nitrogen fixation:** lightning or bacteria turn N₂ from atmosphere into ammonia in soil or water, where bacteria turn it into nitrate
2. **Producers take in nitrate**
3. **Consumers eat producers**
4. **Decomposers break down dead organic matter and waste, returning ammonia to soil or water**
5. **Denitrification:** some bacteria turn nitrates back into N₂ released into the atmosphere
6. **Humans fix (capture) N₂ to use in fertilizer**
7. **Fertilizer increases nitrogen concentration in soil**
8. **Leaching:** excess nitrogen is washed into waterways