Essential Question: How does carbon cycle through the environment?

1. Carbon
	1. About
		1. Contained in all organisms
		2. Conserved as it cycles through the ecosystem
	2. On the earth
		1. Decomposition moves carbon to:
			1. Aquatic animals to sediments
			2. Aquatic plants to sediments
			3. Land animals to sediments
			4. Land plants to sediments
		2. Geologic processes move carbon from sediments to the atmosphere
		3. Extraction moves carbon from fossil fuels to industry
		4. Heat and pressure move carbon from sediments to fossil fuels
	3. In air
		1. Photosynthesis moves carbon:
			1. From atmosphere to aquatic plants
			2. From atmosphere to land plants
		2. Respiration moves carbon from
			1. Aquatic animals to water
			2. Aquatic plants to water
			3. Land plants to atmosphere
			4. Land animals to atmosphere
			5. From aquatic animals to water
			6. Greenhouse Effect
				1. The process by which carbon dioxide in atmosphere absorbs thermal energy reflected off the earth
* The more carbon dioxide in the atmosphere the more thermal energy is absorbed
* The more thermal energy absorbed the more atmospheric temperature rises
	+ 1. Combustion moves carbon from fossil fuels to the atmosphere
		2. Transpiration move carbon from land plants to atmosphere
	1. In water
		1. Diffusion moves carbon from water to the atmosphere
		2. Precipitation moves carbon from the atmosphere to the water

Water

Respiration

Photosynthesis

Decomposition

Decomposition

Decomposition

Precipitation

Respiration

Transpiration

n

Combustion

Respiration

Respiration

Geologic processes

Sediments

Land plants

Fossil fuels

Diffusion

Industry

Atmosphere

Land animals

Aquatic animals

Aquatic plants

Heat and pressure

Heat and pressure

Photosynthesis