

Ecosystems

“Everything is connected”

Chapter 4.1

Ecosystems

- All of the organisms living in an area together with the physical environment
 - Oak forest
 - Coral reef
 - Swamp
 - backyard

Ecosystem Components

- Energy
- Mineral nutrients
- Water
- Oxygen
- Living things

Made up of both living and nonliving things

Ecosystem Components

- **Biotic factors** - all of the living or once living parts of an ecosystem
 - Plants, Animals
 - Dead leaves, animal waste, etc..
- **Abiotic Factors** - All of the nonliving parts of an ecosystem
 - Air, water, sunlight
 - Rocks, sand
- Interaction examples:

Ecosystem Components

Organization of living things

- **Organism** - individual living thing
- **Species** - a group of the same organisms
- **Population** - all of the members of a species that live in a particular place
- **Community** - group of all different species that live in a place
- **Habitat** - place where organisms live