

Presentation Notes

Presentation Ecology Lesson 4.4

Notes from Presentation:

Ecology- The study of the interactions of organisms with one another and their environment.

- Interconnectedness
- Plants and animals need each other
- Organisms need oxygen, water, nutrients, shelter, etc.

Biomes- Large region with similar plants, animals, and other organisms adapted to the climate and other conditions.

- Consist of many similar ecosystems
- Aquatic, dessert, grassland, taiga. temperate forest, tropical rainforest, tundra

Ecosystems- The interactions between the living things and the nonliving things in a place.

- Plants, animals, and other organisms rely on each other and on the physical environment.

Abiotic Ecosystem Components

- Nonliving Factors
- Physical and chemical characteristics
- Air, water, land, soil nutrients, temp, sunlight, precipitation

Biotic Ecosystems Components

- Living organisms
- Flora(plants), fauna(animals), microorganisms

Interactions of Organisms

Food Chain- single path of feeding relations

Grass---->mouse---->snake

Food Web- series of interrelated food chains

Producers and consumers

Producers- manufacture their own food, such as plants

Consumers- obtain energy by eating other organisms

- Herbivores- eat plants
- Carnivores- eat animals
- Omnivores- eat plants and animals

Energy- The ability to do work or cause changes to occur

- Organisms need energy for life-sustaining processes

Trophic levels- An organism's position in the sequence of energy transfers

- 1 Producers—2 Herbivores—3 Carnivores

Energy flow

As energy moves through the trophic level's energy is lost.

- Energy to maintain body heat

- Movement
- Energy body processes- digestion etc.
- Roughly 10% of transferred energy is stored in the next level

AFNR Reflection Page

List five key points that are important to remember from this presentation.

1. Only 10% of energy is transferred
2. 3 types of animals Herb. Carn. Omni.
3. Ecosystems are in biomes
4. There are many biomes
5. 2 types of ecosystems Abiotic and Biotic

List three ideas or concepts that this new information has in common with previous things learned.

1. Animals need energy
2. Plants are needed for life
3. Nonliving things factor into life

List questions or ideas that remain unclear about the information presented that should be asked for clarity at the appropriate time.

None