



Live Animal Interaction

Middle School Life Science | Fall Module 2 | Lake Lotus Park

NGSSS Big Idea: Standard 17—Interdependence

Plants and animals, including humans, interact with and depend upon each other and their environment to satisfy their basic needs.

Benchmark Code & Description:

SC.6.L.15.1—Analyze and describe how and why organisms are classified according to shared characteristics with emphasis on the Linnaean system combined with the concept of Domains.

SC.7.L.17.1—Explain and illustrate the roles and relationships among producers, consumers and decomposers in the process of energy transfer in a food web.

SC.8.L.18.4—Cite evidence that living systems follow the Law of Conservation of Mass and Energy.



LEARNING GOAL/OBJECTIVE

To understand the roles and relationships of plants and animals in our environment.



PREREQUISITES

Review:

- Vocabulary Words
- Applicable Textbook Sections



VOCABULARY

- Producers
- Consumers
- Decomposers
- Herbivore
- Omnivore
- Carnivore



HANDS-ON ACTIVITY

Task(s):

- Hold various animals.
- Document environmental conditions.
- Make observations.

Provided Materials:

- Thermometer
- GPS Device
- Plant and Animal Books
- Clipboard/log sheets/pencils

Career Options: Biologist, Park Ranger, Zoologist, Ecologist

Lesson Steps:

1. The lesson will be held at the Environmental Education Center.
2. The Park Rangers will discuss the different types of classifications of the park's plants and animals.
3. The Park Rangers will discuss how these various plants and animals interact in the park's environment and how they fit into the food web of certain ecosystems.
4. Students will be given an opportunity to closely interact with various animal species.
5. Questions will be answered at the end of the lesson.



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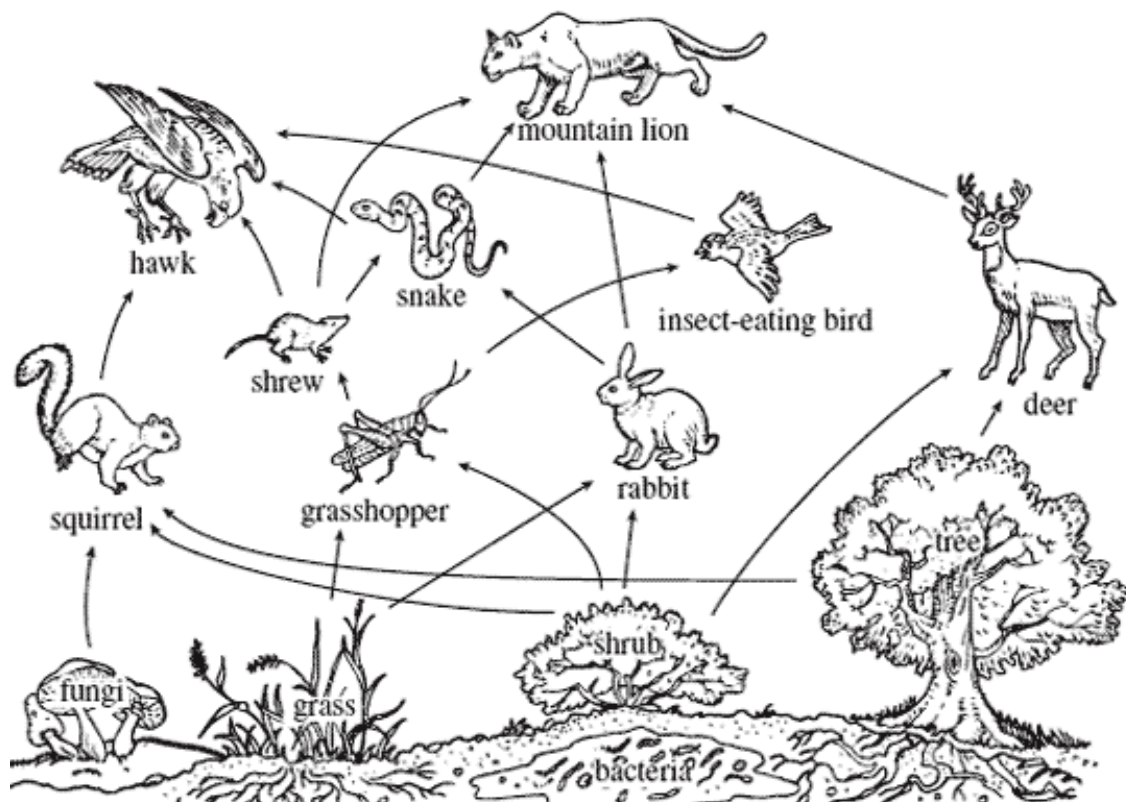
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DATA RECORD

Food Web



Definition:

A food web is made of several interconnected food chains. It shows the flow of energy from one organism to another.

Activities:

1. List 10 individual food chains present in the food web diagram. (Example: tree > deer > mountain lion)

2. Put each item in its correct color category.

- Bacteria
- Bird
- Deer
- Fungi
- Grass
- Grasshopper
- Hawk
- Mountain Lion
- Rabbit
- Shrew
- Shrub
- Snake
- Squirrel
- Tree

**Green =
Producers**

**Blue =
Primary Consumers**

**Purple =
Secondary Consumers**
*(all organisms between
primary and tertiary)*

**Red =
Tertiary Consumers**
*(only the organisms at the
top of the food chain)*

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Questions:

1. What are the parts of a food web? _____

2. What is a producer? _____

3. What is a consumer? _____

4. What is a decomposer? _____

5. Name the three groups of consumers? _____
