		-1	
Name	Date	Class	
Name	Dute	Cluss	

MiniLab

Chapter 2 Construct a Food Web

How is energy passed from organism to organism in an ecosystem? A food chain shows a single path for energy flow in an ecosystem. The overlapping relationships between food chains are shown in a food web.

Procedure

- 1. Read and complete the lab safety form.
- **2.** Use the following information to construct a food web in a meadow ecosystem:
 - Red foxes feed on raccoons, crayfishes, grasshoppers, red clover, meadow voles, and gray squirrels.
 - Red clover is eaten by grasshoppers, muskrats, red foxes, and meadow voles.

- Meadow voles, gray squirrels, and raccoons all eat parts of the white oak tree.
- Crayfishes feed on green algae and detritus, and they are eaten by muskrats and red foxes.
- Raccoons feed on muskrats, meadow voles, gray squirrels, and white oak trees.

Data and Observations

, a	8 , F	2 7 7 2			5 ye 5	
						,
			<u> </u>			
Describe how t	he muskrat would	be affected if dis	ease kills the	white oak tre	es.	
escribe how t	he muskrat would	be affected if dis	ease kills the	white oak tre	es.	
Describe how t	he muskrat would	be affected if dis	ease kills the	white oak tre	es.	

Unit 1

Food Web Analysis

Katydid

- 1. Classify each organism in the food web as a producer, consumer, or decomposer.
- 2. Name 3 organisms in the food web that are carnivores.
- 3. Given the rabbit and the fox, identify the primary consumer and the secondary consumer.
- 4. Which organisms in the food web are primary consumers?
- 5. Describe 1 food chain that is part of this food web. List its components.
- 6. Predict how frogs will be affected if the number of dragonflies in this food web suddenly decreases.
- 7. Add 1 or more organisms to this food web. How many additional links did this create? Explain.
- 8. Remove 1 organism from the food web. How many other organisms were affected? Explain.
- 9. Why is a complex food web better than a simple food chain for the survival of a community?

