

Name: _____

DATE: _____

Lab: Food Web

HOO EATS WHO?

Directions:

Work with a partner to follow the procedure below to make your food web. You can do one web per pair.

Materials:

- Copy of animal figures sheet
- Paste or tape
- Poster paper
- Scissors
- 10 different colored pencils, crayons, and/or markers

Procedure:

- 1) Turn your poster paper so that the short sides are the "bottom" and "top".
- 2) Draw various plants (include flowers, seeds, grass, trees, etc.) on the bottom of the paper. You can be creative and make it look like the ground, or you can do it so that you are just drawing representative organisms.
- 3) Cut out the animal figures **with their names**. Otherwise, you may not be sure who (or HOO! ☺) they are!!!
- 4) Paste the owl to the top of your paper. Again, you can be creative and put him in a tree, or just glue him up there in the middle.
- 5) **DO NOT** glue any other organisms yet, just arrange the other animals on the page with space between them to draw arrows in-between. But, **DO NOT** draw any arrows yet! Arrange them with the grass and seedeaters near the bottom, and the organisms that eat them above them. Those of you, who are being creative, need to get really creative now! It is okay to have a vole hovering in the air, or you could draw him on top of a hill, but he should be "above" the organisms he eats.
- 6) When they are all arranged, paste them in place (you may want to have your teacher check and give you the okay, first!)
- 7) Now for the arrows, READ these directions **CAREFULLY** and **ENTIRELY** before you draw any arrows - **This is where the points are for this lab!!!**
 - a. The arrows in a food web are supposed to show the movement of materials and energy. So, you will draw the arrow from the organism being eaten, pointing to the organism that is eating it.
 - b. This is a large food web, and can get very confusing to look at.
 - Use 10 different colors to draw the arrows TO each of the 10 consumers FROM the foods they consume. Ex) All of the arrows going toward the owl will be the same color.
 - Fill in the key on the last page to show the color you chose for each organism.

Analysis:

- **After** you have completed the food web, give one example of each of the following terms **from your food web**. (**Note:** while a human is an omnivore, there are no humans on your food web, so they cannot be used).
- If any of the terms are not represented in your food web, put a star (*) next to the term, and give me any example you can think of.

1) Food Chain: (Use arrows to show energy flow)

2) Predator – Prey relationship: _____

3) Predator: _____

4) Prey: _____

5) Competition: _____

6) Producer: _____

7) Consumer: _____

8) Decomposer: _____

9) Herbivore: _____

10) Omnivore: _____

11) Autotroph: _____

12) Heterotroph: _____

13) Primary Consumer (1°) : _____

14) Secondary Consumer (2°): _____

15) Tertiary Consumer (3°): _____

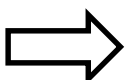
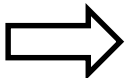
16) What is the difference between a food chain & a food web?

17) Fold your food web into 8½ x 11 size, place your lab packets (both partners) within the folded web and hand in your lab.

Figuring out..... HOO eats WHO?

COLOR CODED ARROW KEY

Color	Consumer	"Foods" they Eat
	Owl	Field mouse, Vole, Bird, Shrew, Mole, Lizard, Grasshopper, Beetle, Moth
	Field Mouse	Grass, Seeds, Grasshopper, Beetle, Moth
	Vole	Grass, Seeds, Plant Roots Grasshopper, Beetle, Moth
	Bird	Seeds, Grasshopper, Beetle, Moth
	Shrew	Grasshopper, Beetle, Moth
	Mole	Grasshopper, Beetle, Moth
	Lizard	Flowers, Seeds, Grasshopper, Beetle, Moth
	Grasshopper	Grass, Seeds, Leaves
	Beetle	Leaves, Flowers, Seeds
	Moth	Flowers

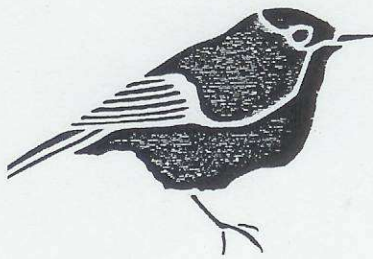




FIELD
MOUSE



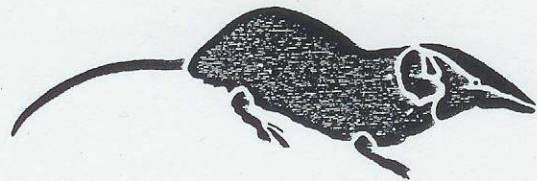
VOLE



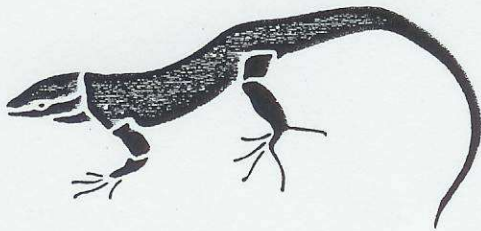
BIRD



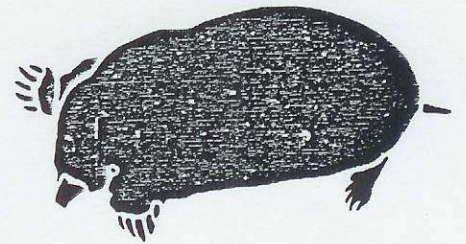
OWL



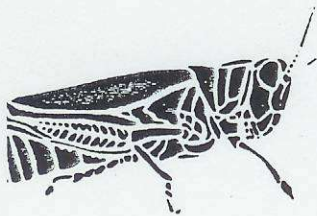
SHREW



LIZARD



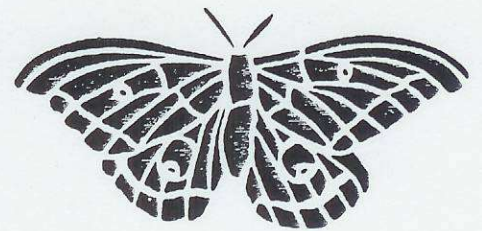
MOLE



GRASSHOPPER



BETLE



MOTH