

Laboratory Activity: **Development and Identification of a Complex Terrestrial Food Web**

Team Members _____

Laboratory Instructions: This is a multi-part lab activity that requires students to complete two major tasks. Firstly, in the space below, you are to correctly list at least ten (10) organisms in a land food web. These organisms may be plants, animals, bacteria, or fungi. Secondly, you are to draw or diagram a terrestrial (land) food web in the manner that the aquatic (ocean) food web was done as figure 3-12 in the course textbook. The web must contain at least five (5) trophic levels with at least two (2) organisms identified at each level. It will be drawn on page 2 of this assignment, and it must contain drawings of each organism or alternatively the name of each organism in a neat circle. Interconnecting arrows in the food web must point to the organism (animal) that is consuming or eating the organism below it. In addition to your drawing or diagram on the second page, you must complete the table below as accurately as possible. You may use any in-lab or online information to help you complete this lab.

Terrestrial (Forest or Jungle Food Web) Must contain at least 2 items per trophic level.

	A	B	C
Trophic Level Organism	Name of organism (plant or animal) at Trophic Level	Consuming what? (what it is eating if applicable)	Being Consumed by what? (what is eating it if applicable)
Producer 1	Fungi	nothing	Erotylidae
Producer 2	grass	nothing	Grasshopper
Primary Consumer 1	Erotylidae	Fungi	bird
Primary Consumer 2	Bird	grasshopper	Snake
Secondary Consumer 1	Snake	Bird	Hawk
Secondary Consumer 2	Hawk	Snake	Lion
Tertiary Consumer 1 (optional)	Lion	hawk	hyena
Tertiary Consumer 2 (optional)	Hyena	lion	Puma
Decomposer 1	maggot	Any above dead	Ant
Decomposer 2	Ant	"Hyena	Anteater
Detritivore 1	Slug	"grass	Bacteria or fungi
Detritivore 2	worm	"dead organic matter	Hawk, bacterial, fungi

Drawing or Diagram of a Land Food Web: Beginning at the bottom of this page with a producer such as grass, please draw or diagram using circles, a food web with at least 5 trophic levels. The arrows should point to what is doing the consuming (eating), not what is being eaten.

FOOD WEB DRAWING OR DIAGRAM

Please use the following organisms for completing both parts of this lab. Several correct answers are possible.

Possible Food Web Organisms

Bacteria, Bear, Buzzard, Deer, Fox, Fungi, Grass, Hawk, Human, Lettuce, Rabbit, Worm

Ter Con 1 Bear

Ter Con 2 Human

Sec Con 1 Fox

Sec Con 2 Hawk

Pri Con 1 Deer

Pri Con 2 Rabbit

Pro 1 Grass

Pro 2 Lettuce

Det 1 Buzzard

Det 2 Worm

Dec 1 Bacteria

Dec 2 Fungi