**Food Web Biome Lab Activity**

Background: Food chains and food webs are used to show the movement of energy through organisms in a community. Food chains usually have 3-5 organisms in them; food webs are made up of many food chains and have more plants and animals.

Purpose: In this activity, you and a partner will construct a food web from an assortment of organisms living in a particular biome. You will display your food web on smore.com along with other information on your biome.

Food Web (50 points):

1. Using the list of organisms for your assigned ecosystem, **arrange** them on a poster to show the flow of energy. You may use paper or create the food web online.
2. Make sure each organism is represented by a **picture** and **labeled** with the name of the organism.
3. Clearly show the flow of energy between organisms using **arrows**.
4. Choose **one food chain and label:** producer, primary consumer, secondary consumer and tertiary consumer.
5. Make sure to include the sun and draw arrows from it to the producers.
6. Your food web must be colorful, creative, clear, display effort, and be easy to read.

Smore (50 points):

1. Go to **smore.com** and create a flyer.
2. Title the flyer with the name of your biome.
3. List the location/distribution of your biome as well as average temperature in degrees Fahrenheit and precipitation levels in inches per year.
4. Insert a picture of your **food web**.
5. Choose one plant and one animal from your biome and list 2 adaptations that each one has to help it survive in this environment.
6. List 3 interesting facts about your biome. These cannot be repeat information.
7. **Email the link** to your smore to me at windj@lisd.net

Tropical Forest Food Web

Organisms What they eat

Macaws Orchids, seeds, bananas

Fruit Bats Bananas, coconuts

Python Macaws, fruit bats, parrots

Monkeys Bananas, bamboo, coconuts

Jaguar Macaws, chimps, parrots, monkeys, frogs

Insects Bananas, coconuts

Vampire Bats Insects

Chimpanzees Orchids, seeds, bananas, bamboo, insects

Parrots Seeds, bananas, coconut, insects

Frog Insects

Iguanas Insects, orchids, coconuts, bamboo, bananas

Savanna Food Web

Organisms What they eat

Cheetah Giraffes, zebras

Elephants Acacia trees,

Zebras Grass, acacia trees

Termites Seeds

Meercats Termites, Seeds

Baboon Termites, Seeds, Meercats

Lions Baboons, giraffes, zebras, elephants

Giraffes Acacia trees

Hyena Elephants, zebras, giraffes

Vultures Zebras, Elephants, cheetahs, hyenas, giraffes

Desert Food Web

Organisms What they eat

Kangaroo Rats Cactus, flowers, insects

Badger Kangaroo rats, lizards, snakes, rabbits

Lizards Insects

Insects Cactus, flowers, seeds

Bats Insects, flowers

Deer Flowers, seeds, cactus

Snakes Kangaroo rats, lizards, rabbits

Coyote Lizards, deer, kangaroo rats, rabbits

Vulture Snakes, rodents, rabbits

Mountain lion Deer, rabbits

Rabbits Flowers, cactus, seeds

Chaparral Food Web

Organisms What they eat

Stink Beetle Plants

Monarch Butterfly Plants, flower nectar

Anna's Hummingbird Flower nectar

California Quail Beetles, seeds

Brush Rabbit Plants, grass

Pocket Mouse Seeds

Raccoon Plants, beetles

Mule Deer Plants, grass

Gopher Snake Brush rabbit, pocket mouse

Fence Lizard Beetles

Red-tailed Hawk Quail, rabbit, mouse, snake, lizard

Bobcat Quail, rabbit, deer, lizard

Coyote Quail, rabbit, deer, lizards

Turkey Vultures Rabbits, snakes

Temperate Deciduous Forest Food Web

Organisms What they eat

Skunk Insects

Owl Mice, sparrows

Fox Mice, sparrows

Mice Grass, seeds, insects

Sparrows Grass, seeds, insects

Mountain Lion Deer

Deer Grass, Trees

Black Bear Deer, grass, seeds

Insects Seeds

Possum Insects

Red tailed hawk Mice, sparrows, insects

Coniferous Forest (Taiga) Food Web

Organisms What they eat

Insects Grass, ferns, moss

Weasels Mice, chipmunks

Blue Jay Grass, ferns, moss

Wolves Moose, elk

Woodpecker Insects

Owls Woodpeckers, blue jays, chipmunks, mice

Chipmunks Insects, grass, ferns

Mice Insects, grass, ferns

Fox Mice, chipmunks

Moose Grass, ferns, moss

Elk Grass, ferns, moss

Lynx Skunks, owls, weasels, fox, chipmunks, mice

Skunk Grass, insets, mice

Temperate Grassland Food Web

Organisms What they eat

Rattle snakes Prairie dogs, lizards

Prairie Dogs Insects, grass, seeds

Insects Seeds

Bison Grass

Elk Grass

Wolves Elk, prairie dogs, antelope, deer

Coyotes Prairie dogs, rabbits, antelope, deer

Rabbits Grass, seeds

Hawks Rabbits, Prairie dogs, snakes

Antelope Grass

Lizards Insects, seeds

Deer Grass

Tundra Food Web

Organisms What they eat

Arctic Wolves Musk ox, caribou, arctic fox, lemmings

Groundhogs Grass

Polar Bears Foxes, seals

Seals Fish

Fish Plankton, algae

Owls Foxes, lemmings, hares

Hares Lichens, grass

Brown bears Grass, lemmings, hares, groundhogs

Foxes Lemmings, groundhogs

Lemmings Grasses

Caribou Mosses, grasses

Musk ox Grasses

Freshwater Food Web

Organisms What they eat

Water Fleas Phytoplankton

Pond Snail Aquatic Plants, Detritus, Algae, Phytoplankton

Dragonfly Larva Mayfly Larva, Pond Snail,

Water Snake Bullfrog, Stickleback, King Fisher

Worms Detritus

Stickleback Water Fleas, Dragonfly and Mayfly Larva

Bullfrog Worms , Dragonfly and Mayfly Larva, Crayfish

King Fisher Dragonfly and Mayfly Larva, Stickleback

Mayfly Larva Aquatic Plants, Algae

Bass Dragonfly and Mayfly Larva, Bullfrog, King Fisher

Crayfish Aquatic Plants, Pond Snails, Phytoplankton, Detritus

Marine Food Web

Organisms What they eat

Mussel Phytoplankton, Zooplankton

Sea Star Mussel, Limpet

Herring Phytoplankton, Zooplankton

Limpet Seaweed, Algae

Whelk Limpet, Mussel

Crab Algae, Limpet, Mussel

Fish Prawn

Lobster Limpet, Whelk, Mussel

Dolphin Herring

Prawn Zooplankton, Phytoplankton

Zooplankton Phytoplankton

Seal Herring, Crab

Gull Prawn, Mussel, Crab, Limpet, Whelk, Sea Star, Herring