Food Chain Hunt 3rd-5th Grade Program

Description: Kick-start your ecology knowledge with a fun exploration of the Sweetwater Marsh Refuge. What better way to study ecology, than become an ecologist yourself? Students will study important aspects of ecology such as adaptations, predator-prey relations, and the recycling of organic matter. Then, students will apply their new knowledge by looking for evidence of different animal species while hiking the trails around the refuge.

Objectives:

- Know the definition of a refuge and what habitats exist in Sweetwater Refuge.
- Know that plants and animals have structures to help them survive through various functions such as eating, protection, reproduction, and movement.
- Be able to describe a food chain and how different producers and consumers are interconnected in an ecosystem.
- Know that a healthy ecosystem is one in which multiple species are able to meet their needs in a stable food web.



Birdwatching Station:

1 pair of binoculars per student.

Mark the behavior of birds in the ethogram on worksheet. Use the field guides to identify at least one species – students may not get a close/clear enough look to ID all the birds, and that's ok! At the end of time, ensure all binoculars are collected and returned to the box.

Binocular Instructions:

Always keep string around your neck, so the binoculars don't get lost. Never walk while using binoculars! Look through the small holes so that birds look bigger. Have a staring contest with the bird, slowly raise your binoculars until they just touch your eyelashes, and use the focus to make the bird clear.

Talking Points:

What is that bird doing? (looking for food, flying, calling, etc.)
Do you notice any unusual body parts on that bird? (ex. Long legs/neck/beak, bright colors) -How do you think that body part might help them survive?
If we're having trouble seeing a bird, can we find any evidence that birds were here before? (ex. Feathers, footprints, scat, birdsong)

Food Chain Hunt



Food Chain Hunt - Wetland Station:

Students will record the plants and animals they see in the wetland habitat for this section.
Explain the different columns and examples of animals that might go in them:

Plants – producers, grow in energy from the sun, e.g.: bushes and algae

Mammals – consumers, warm-blooded, fur, live birth, breathe air, e.g.: humans and rabbits
Birds – consumers, fly, warm-blooded, feathers, lay eggs, breathe air, e.g.: osprey, seagulls
Invertebrates – consumers, "no vertebrate" (explain what a vertebra is, and ask if kids know the prefix "in" which means "none"), animals with no spine/backbone, e.g.: bugs and crabs
Fish – consumers, swim, cold-blooded, scales, lay eggs or live birth, breathe in water, e.g.: sardines and sharks (on the second page in wetland)

Students are looking for evidence of animals: Actual animal, tracks, scat, fur/feathers, nests, burrows, webs, bones or skeletons

At the end of the section, have students try to make a food chain on their page by connecting 3 or 4 species they found.

Talking Point:

Producer: plant or animal that produces their own food or energy from the sun
 Consumer: animal that eats a plant or another animal to get energy
 Food chain: how energy moves through a system