

High School Bird Adaptation/ID Description and TEKS Overview



During this hands-on field study, students will focus on behavioral and physical adaptations of birds. Students will learn the role birds play as biological control agents, bioindicators and vehicles of biodiversity. Students will learn the role of biotic and abiotic factors and how they affect migration patterns, habitat, bird populations and restoration efforts. Students will use binoculars and field guides to identify birds they see as they hike along the boardwalk out over the wetland.

Environmental Systems TEKS (this is only an overview of what TEKS are covered)

- The student, for at least 40% of instructional time, conducts hands-on laboratory and field investigations using safe, environmentally appropriate, and ethical practices. (1)
- Student will demonstrate the use of course apparatuses, equipment, technique and procedures. i.e. Binoculars, field guides, white boards (2.G)
- The student knows the relationships of biotic and abiotic factors within habitats, ecosystems, and biomes. (4)
- Identify native animals (4.A)
- Predict how species extinction may alter the food chain and affect existing populations in an ecosystem. (4.G)
- The student knows the interrelationships among the resources within the local environmental system. (5)
- Relate carrying capacity to population dynamics (7.A)
- Analyze and describe the effects on areas impacted by natural events. (8.A)
- The student knows the impact of human activities on the environment. (9)

Aquatic Science TEKS (this is only an overview of what TEKS are covered)

- The student, for at least 40% of instructional time, conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices.
- Identify biological components of an aquatic life zone as they relate to the organisms in it. (9.C)
- The student knows environmental adaptations of aquatic organisms. (10)
- Classify different aquatic organisms (10.A)
- Compare and describe how adaptations allow an organism to exist with within an aquatic environment. (10.B)
- The student understands how human activities impact aquatic environments.