



Kentucky Academic Standards Addressed By Zoo Program

Great American Wings of Wonder Program

Program description:

Zoo naturalists will educate your students about our birds' natural behaviors, adaptations and habitat requirements. This entertaining program will also encourage your students to become involved in bird and wildlife issues.

Kentucky *Core Content for Science Assessment* standards addressed by this program:

END OF PRIMARY – 5TH GRADE

Subdomain: Biological Science

Organizer: Unity and Diversity

Standards:

End of Primary

SC-EP-3.4.1.

Students will explain the basic needs of organisms.

SC-EP-3.4.3.

Students will describe the basic structures and related functions of plants and animals that contribute to growth, reproduction and survival.

Fourth Grade

SC-04-3.4.1.

Students will:

- Compare the different structures and functions of plants and animals that contribute to the growth, survival and reproduction of the organisms;
- Make inferences about the relationship between structure and function in organisms.

SC-04-3.4.4

Students will identify some characteristics of organisms that are inherited from the parents and other that are learned from interactions with the environment.

Subdomain: Unifying Concepts

Organizer: Energy Transformations

Standards:

End of Primary

SC-EP-4.6.1

Students will describe basic relationships of plants and animals in an ecosystem (food chains).

Fourth Grade

SC-05-4.6.1

Student will analyze patterns and make generalizations about the basic relationships of plants and animals in an ecosystem (food chain).

Organizer: Interdependence

Standards:

End of Primary

SC-EP-4.7.1.

Students will describe the cause and effect relationships existing between organisms and their environments.

SC-04-4.7.2.

Students will:

- Describe human interactions in the environment where they live;
- Classify the interactions as beneficial or harmful to the environment using data/evidence to support conclusions.

MIDDLE SCHOOL: GRADES 6-8

Subdomain: Biological Science

Organizer: Unity and Diversity

Standards:

Sixth Grade

SC-06-3.4.2

Students will make inferences about the factors influencing behavior based on data/evidence of various organism's behaviors.

Eighth Grade

SC-8-3.4.3

Students will form or justify conclusions as to whether a response is innate or learned using data/evidence on behavioral responses to internal and external stimuli.

HIGH SCHOOL: GRADES 9-12

Subdomain: Unifying Concepts

Organizer: Interdependence

Standards:

SC-HS-4.7.1

Students will:

- analyze relationships and interactions among organisms in ecosystems;
- predict the effect on other organisms of changes to one or more components of the ecosystem.

Organisms both cooperate and compete in ecosystems. Often changes in one component of an ecosystem will have effects on the entire system that are difficult to predict. The interrelationships and interdependencies of these organisms may generate ecosystems that are stable for hundreds of thousands of years.

SC-HS-4.7.2

Students will:

- evaluate proposed solutions from multiple perspectives to environmental problems caused by human interaction;
- justify positions using evidence/data.

Human beings live within the world's ecosystems. Human activities can deliberately or inadvertently alter the dynamic in ecosystems. These activities can threaten current and future global stability and, if not addressed, ecosystems can be irreversibly affected.