



CINCINNATI ZOO & BOTANICAL GARDEN



Indiana 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.

Indiana Science Standards addressed by this program:

GRADES K-7th

Standard 1: The Nature of Science and Technology

Scientific Inquiry

Kindergarten

K.1.1

Raise questions about the natural world.

1st Grade

1.1.2

Investigate and make observations to seek answers to questions about the world, such as "in what ways do animals move?"

The Scientific Enterprise

1st Grade

1.1.3

Recognize that and demonstrate how people can learn much about plants and animals by observing them closely over a period of time. Recognize also that care must be taken to know the needs of living things and how to provide for them.

Technology and Science

5th Grade

5.1.6

Explain how the solution to one problem, such as the use of pesticides in agriculture or the use of dumps for wastes disposal, may create other problems.

7th Grade

7.1.8

Explain that technologies often have drawbacks as well as benefits. Consider a technology such as the use of pesticides, which helps some organisms but may hurt others, either deliberately or inadvertently.

Standard 3: The Physical Setting

Forces of Nature

Kindergarten

K.3.2

Investigate that things move in different ways, such as fast, slow, etc.

Standard 4: The Living Environment

Diversity of Life

Kindergarten

- K.4.1 Give examples of plants and animals.
- K.4.2 Observe plants and animals, describing how they are alike and how they are different in the way they look and in the things they do.

2nd Grade

- 2.4.1 Observe and identify different external features of plants and animals and describe how these features help them live in different environments.

6th Grade

- 6.4.3 Describe some of the great variety of body plans and internal structures animals and plants have that contribute to their being able to make or find food and reproduce.

Interdependence of Life

1st Grade

- 1.4.3 Observe and explain that animals eat plants or other animals for food.

2nd Grade

- 2.4.2 Observe that and describe how animals may use plants, or even other animals, for shelter and nesting.
- 2.4.4 Recognize and explain that living things are found almost everywhere in the world and that there are somewhat different kinds in different places.

Interdependence of Life and Evolution

6th Grade

- 6.4.9 Recognize and explain that two types of organisms may interact in a competitive or cooperative relationship, such as producer/consumer, predator/prey, or parasite host.

Environmental Science, Advanced

Standard: Principles of Environmental Science

Environmental Systems

- Env.1.4 Understand and explain that human beings are part of Earth's ecosystems and give examples of how human activities can, deliberately or inadvertently, alter ecosystems.

Environmental Hazards

- Env.1.35 Compare and contrast the beneficial and harmful effects of an environmental stressor, such as herbicides and pesticides, on plants and animals. Give examples of secondary effects on other environmental components.

ADVANCED LIFE SCIENCE: ANIMALS (L) STANDARDS

Standard: Animal Genetics and The Environment

Evolution

- AS.4.14 Compare and contrast adaptations of animals for survival in different environmental conditions.