



HONEYWELL

ARTS IN EDUCATION

Discover: Biological Diversity

August-May

Grades 4-6 (90 minutes or more depending on the group size)

What will my students do?

- Participate in an interactive game to examine the relationships between organisms in an ecosystem
- Explore food webs and how animals and plants in different habitats are connected
- Examine the biological diversity within Charley Creek Gardens
- Explore adaptations that allow plants to survive in different environmental conditions

What will my students learn?

- Plants and animals support each other in the food chain and food web
- The disappearance of one species affects other species
- The threats to biodiversity
- Types of organisms that live together in an ecosystem and their interactions with each other
- Science is fun!

Standards:

- 4.LS.2 Use evidence to support the explanation that a change in the environment may result in a plant or animal will survive and reproduce or move to a different location and die.
- 4.LS.3 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction in a different ecosystems.
- 5.LS.2 Observe and classify common Indiana organisms as producers, consumers, decomposers, or predator and prey based on their relationships and interactions with other organisms in their ecosystem.
- 6.LS.3 Describe specific relationships (predator/prey, consumer/ producer, parasite/host) and symbiotic relationships between organisms. Construct an explanation that predicts why patterns of interactions develop between organisms and ecosystems.
- 6.LS.4 Investigate and use data to explain how changes in biotic (living parts of an ecosystem)and abiotic (nonliving parts- soil, water, etc.) components in a given habitat can be beneficial or detrimental to native plant and animals.
- 4-6.SL.2.1: Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) on grade-appropriate topics and texts, building on others' ideas and expressing personal ideas clearly.