

## **North Central Environmental Camp Class Descriptions and Potential NGSS Core Content Connections**

### Mammals

Students will learn about the characteristics of mammals and see/handle the furs of mammals native to Kentucky. Students will also learn how animals are adapted to survive in various Kentucky habitats (e.g. what they eat, how they defend themselves, how they find food and shelter, etc.)

Potential NGSS Core Content Connections: 2-LS4-1, 3LS2-1, 3LS4-3, 4-LS1-1, 4-LS1-2, 5-PS3-1, 5-LS2-1

### Bird Adaptations

Students will learn about the characteristics of birds, and complete activities to demonstrate how birds are adapted to survive in their habitat (beak and feet shapes, types of feathers, bird songs, etc.), and then observe birds at the 'Bird Blind'.

Potential NGSS Core Content Connections: 2-LS4-1, 3-LS4-3, 4-L1-1, 4-LS1-2

### Owl Pellets

Students will learn about the specific adaptations, anatomy, and behavior of owls and then dissect an owl pellet to learn more about the environment in which owls live.

Potential NGSS Core Content Connections: 3LS4-3, 4-LS1-1, 4LS1-2, 4-PS4-2, 5-LS2-1, 5ESS3-1, KY.5.MD.2

### Lake Study

Students will learn how environmental scientists test the water quality of lakes, ponds, and streams. Then they will conduct some of these tests themselves, including water turbidity, water pH, and a simulated macroinvertebrate inventory.

Potential NGSS Core Content Connections: 2-LS4-1, 2ESS2-2, 2-ESS2-3, 3-LS4-3, 4-LS1-1

### Nature Hike

Students will learn about any number of topics—energy cycling, native animal/plant identification, the structure of trees, how the natural environment is utilized by humans and wildlife, the impact of invasive species, general nature appreciation, etc.

Potential NGSS Core Content Connections: 3-LS1-1, 3-LS2-1, 3LS4-3, 3LS3-3, 3LS4-2, 4-LS1-1, 5LS1-1, 5-ESS3-1

### Enviroscapes

Students will learn about how water flows through our natural environments, the concept of watershed, and the various ways how humans can impact the quality of water in our ecosystems through hands-on activities and demos focused on gravity's effects on water flows and identifying various sources of point and non-point pollution.

Potential NGSS Core Content Connections: 4-ESS2-1, 4-ESS2-2, 4ESS3-2, 5-PS2-1, 5-ESS2-1, 5-ESS3-1

### Night Hike

Students will learn about how the natural world at night differs from the natural world in the day, completing activities focused on nocturnal surroundings, physical differences in sight and other senses, the solar system and constellations, and nocturnal wildlife.

Potential NGSS Core Content Connections: 3-LS4-3, 3-LS3-2 4-PS4-2, 4-LS1-2, 5-ESS1-1, 5-ESS1-2