

Wildlife guidelines correlated to the National Science Standards

Key National Science Standard (NSS)

UC	Unifying Concepts
I	Inquiry
P	Physical Science
L	Life Science
E	Earth & Space Science
ST	Science & Technology
SP	Personal & Social Perspective
H	History & Nature of Science

Learning Objectives	Key Point 2: Wildlife Ecology	Activity	NSS	Topic
1.	Know the meaning of “habitat”, and be able to name the habitat requirements for wildlife and the factors that affect wildlife suitability.	Draw a map and identify habitat for a species	I, E, L, UC, SP	Interdependence of Organisms, Biological Evolution, Behavior of Organisms
2.	Know and understand basic ecological concepts and terminology.	Study and apply knowledge of concepts and terminology	I, E, L, UC, SP	Science as human endeavor, Nature of scientific knowledge, Behavior of Organisms
3.	Understand the difference between an ecosystem, community and population. Be able to explain how communities interact with their non-living surroundings to form ecosystems.	Create a visual display of various food chains and use to explain an	I, E, L, UC, SP	Interdependence of Organisms, Behavior of Organisms

		ecosystem		
4.	Understand wildlife population dynamics such as birth, mortality, age-structure, sex ratio, and mating systems. Understand the impact of limiting and decimating factors of common wildlife species on wildlife management.	Visit an area and list limiting and decimating factors of wildlife species	I, P, E, L, UC, SP	Biological Evolution, Interdependence of Organisms, Population Growth
5.	Recognize that all living things must be well-adapted to their native environment in order to survive. Be able to identify, describe and explain the advantages of specific anatomical, physiological and/or behavioral adaptations of wildlife to their environment.	Compare and contrast behavioral and physiological adaptations	I, P, E, L, UC	Molecular Basis of Heredity, Biological Evolution. Interdependence of Organisms, Behavior of Organisms
6.	Know the meaning of the term "Biodiversity", and understand why biodiversity is important to people and wildlife.	Web Lesson: Measuring Biodiversity across North America	I, E, L, UC, SP, ST	Interdependence of Organisms, Behavior of Organisms, Natural Resources, Environmental Quality
7.	Understand the importance of the 3 levels of biodiversity: genetics, species and ecosystem or community, and understand the implications of biodiversity loss at each level.	Select and study examples of species in your area	I, E, L, UC, SP	Biological Evolution, Interdependence of Organisms, Natural Resources