



## **Introduction to Endangered Species Workshop**

**Participants will learn about the environmental and human factors that affect animal survival and explore possible solutions to reduce threats.**

### **3<sup>rd</sup>-4<sup>th</sup> grade:**

- ✓ SC03-S2C2-01: Describe how, in a system with many components, the components usually influence one another.
- ✓ SC03-S4C3-03: Explain the interrelationships among plants and animals in different environments: producers, consumers, decomposers.
- ✓ SC03-S4C4-01: Identify adaptations of plants and animals that allow them to live in specific environments.
- ✓ SC03-S4C4-02: Describe ways that species adapt when introduced into new environments.
- ✓ SC03-S4C3-05: Describe how environmental factors in the ecosystem may affect a member organism's ability to grow, reproduce, and thrive.
- ✓ SC03-S2C2-02: Explain why a system may not work if a component is defective or missing.
- ✓ SC03-S3C1-02: Describe the beneficial and harmful impacts of natural events and human activities on the environment.
- ✓ SC03-S4C4-03: Cite examples of how a species' inability to adapt to changing conditions in the ecosystem led to the extinction of that species.
- ✓ SC04-S4C3-01: Describe ways various resources are utilized to meet the needs of a population.
- ✓ SC04-S4C3-03: Analyze the effect that limited resources may have on an environment.
- ✓ SC04-S4C4-02: Give examples of adaptations that allow plants and animals to survive.
- ✓ SC04-S3C1-01: Describe how natural events and human activities have positive and negative impacts on environments.
- ✓ SC04-S4C3-04: Describe ways in which resources can be conserved.

**5<sup>th</sup>-6<sup>th</sup> grade:**

- ✓ SC05-S3C1-01: Explain the impacts of natural hazards on habitats.
- ✓ SC05-S3C1-03: Evaluate the possible strengths and weaknesses of a proposed solution to a specific probe relevant to human, animal, or habitat needs.
- ✓ SC05-S1C3-01: Analyze data obtained in a scientific investigation to identify trends and from conclusions.
- ✓ SC06-S1C2-04: Perform measurements using appropriate scientific tools.
- ✓ SC06-S4C3-02: Describe how the following environmental conditions affect the quality of life: water quality, climate, population density, smog.
- ✓ SC06-S3C2-01: Propose viable methods or responding to an identified need or problem.
- ✓ SC06-S3C2-02: Compare possible solution to best address an identified need or problem.

**7<sup>th</sup>-8<sup>th</sup> grade:**

- ✓ SC07-S3C1-01: Analyze environmental risks caused by human interaction with biological or geological systems.
- ✓ SC07-S3C1-02: Analyze environmental benefits of the following human interactions with biological or geological systems: reforestation, habitat restoration, construction of dams.
- ✓ SC07-S3C1-03: Propose possible solutions to address the environmental risks in biological or geological systems.
- ✓ SC07-S4C3-02: Explain how organisms obtain and use resources to develop and thrive in: niches, predator/prey relationships.
- ✓ SC07-S4C3-03: Analyze the interactions of living organisms with their ecosystems: limiting factors, carrying capacity.
- ✓ SC07-S4C3-05: Predict how environmental factors affect survival rates in living organisms.
- ✓ SC08-S3C1-01: Analyze the risk factors associated with natural, human induced, and/or biological hazards.
- ✓ SC08-S4C4-01: Explain how an organism's behavior allows it to survive in an environment.
- ✓ SC08-S4C4-04: Compare the symbiotic and competitive relationships in organisms within an ecosystem.
- ✓ SC08-S4C4-06: Describe the following factors that allow for the survival of living organisms: protective coloration, beak design, seed dispersal, pollination.