

Environmental Education Curriculum Details

# GRIZZLY BEARS FOREVER

(Grade 9)

In order to provide you and your class with a useful and enriching learning experience CPAWS has designed its **Grade 9 Grizzly Bears Forever** program to cover the following curriculum requirements:

## **Science Topic A: Biological Diversity**

Learn that diversity is maintained through natural processes of sexual and asexual reproduction, though the survival of individual species - and variations within those species - may be influenced by ecological and human-caused factors. Examine trends toward loss of diversity and examine related issues concerning environmental quality and the impact of technologies.

## **Social Studies General Outcome 9.2: Economic Systems in Canada and the United States**

Demonstrate an understanding and appreciation of how economic decision making in Canada and the United States impacts quality of life, citizenship and identity.

- **Investigate and interpret diversity among species and within species, and describe how diversity contributes to species survival.**
  - Observe variation in living things, and describe examples of variation among species and within species.
  - Identify examples of niches, and describe the role of variation in enabling closely related living things to survive in the same ecosystem.
  - Investigate and interpret dependencies among species that link the survival of one species to the survival of others.
    - Identify examples of symbiotic relationships.
    - Classify symbiotic relationships as mutualism, commensalism and parasitism.
  - Identify the role of variation in species survival under changing environmental conditions.
- **Investigate the nature of reproductive processes and their role in transmitting species characteristics.**
  - Describe examples of variation of characteristics within a species.
- **Describe, in general terms, the role of genetic materials in the continuity and variation of species characteristics; and investigate and interpret related technologies.**
  - Describe, in general terms, the role and relationship of chromosomes, genes and DNA.



- **Identify impacts of human action on species survival and variation within species, and analyze related issues for personal and public decision-making.**
  - Describe the relative abundance of species on Earth and in different environments.
  - Describe ongoing changes in biological diversity through extinction and extirpation of native species, and investigate the role of environmental factors in causing these changes.
- **Assess, critically, the interrelationship between political decisions and economic systems by exploring and reflecting upon the following questions and issues:**
  - Explore how government decisions on environmental issues impact quality of life.

---

📄 **For more information, please visit**  
[www.cpaws-southernalberta.org/campaigns/education](http://www.cpaws-southernalberta.org/campaigns/education)

**Or contact us**  
**E** [education@cpaws.org](mailto:education@cpaws.org) **or P** 403.232.6686