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.

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For more information, please visit
www.cpaws-southernalberta.org/campaigns/education

Or contact us
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