

Environmental Education Curriculum Details

# GRIZZLY BEARS FOREVER

## (Grade 7)

In order to provide you and your class with a useful and enriching learning experience CPAWS has designed its **Grade 7 Grizzly Bears Forever** program to cover the following curriculum requirements:

### Science Topic A: Interactions and Ecosystems

Develop awareness of ecosystem components and interactions, as well as natural cycles and processes of change. Become aware of the intended and unintended consequences of human activity, and recognize the need for responsible decision-making and action.

- Investigate and describe relationships between humans and their environments, and identify related issues and scientific questions.
  - Illustrate how life-supporting environments meet the needs of living things for nutrients, energy sources, moisture, suitable habitat, and exchange of gases.
  - Describe examples of interaction and interdependency within an ecosystem.
  - Identify examples of human impacts on ecosystems, and investigate and analyze the link between these impacts and the human wants and needs that give rise to them.
- Analyze personal and public decisions that involve consideration of environmental impacts, and identify needs for scientific knowledge that can inform those decisions.
- Trace and interpret the flow of energy and materials within an ecosystem.
  - Analyze an ecosystem to identify biotic and abiotic components, and describe interactions among these components.
  - Analyze ecosystems to identify producers, consumers and decomposers, and describe how energy is supplied to and flows through a food web, by:
    - Describing and giving examples of energy and nutrient storage in plants and animals.
    - Describing how matter is recycled in an ecosystem through interactions among plants, animals, fungi, bacteria and other microorganisms.
    - Interpreting food webs, and predicting the effects of changes to any part of a web.
    - Describe the process of cycling carbon and water through an ecosystem.
    - Identify mechanisms by which pollutants enter and move through the environment, and can become concentrated in some organisms.



- **Describe the relationships among knowledge, decisions and actions in maintaining life-supporting environments.**
  - Identify intended and unintended consequences of human activities within local and global environments.
  - Analyze a local environment issue or problem based on evidence from a variety of sources, and identify possible actions and consequences.

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