

Chapters

Overview

Geography of the Tundra

Geology of the Tundra

The Tundra Ecosystem

Biodiversity of the Tundra

History of the Tundra

Uses of the Tundra

The Future of the Tundra

Support Materials

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Learning Objectives

Discussion Questions

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Printable Handouts

Assessment Questions

Answer Key

Curriculum Correlations

Activities & Projects

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1. Have small student groups create visual representations of the tundra. Instruct them to include key geological, geographical, biological, and ecological features. Invite students to select presentation mediums of their choice, from a 3-D relief map to a digital interactive. Have each group present its work.

2. Ask students to select one aspect of tundra biodiversity to research, with a close look at how environmental threats affect the current and future status of this biodiversity. Instruct them to select and research one major environmental challenge to determine what is in place to minimize/eradicate its impact. Students offer additional solutions that will stem its negative impact. They present their findings and solutions in the form of a journal article, op-ed, a briefing to an international environmental coalition, etc.

3. Have students explore the impact of climate change on the tundra, starting with a review of various scientist-led projects of the International Tundra Experiment <http://www.geog.ubc.ca/itex/index.php>. Students determine how the tundra will change and based on research and make recommendations regarding possible solutions that emerge from existing evidence and projects.

4. Invite students to get a closer look at an element of and/or all of parts of tundra environment through visuals, videos, webcams, etc. Using these images, students present a visual case for proactive tundra preservation, pointing to how these elements are affected by environmental issues. Students can jumpstart their work with:

- Learn about the Tundra

<http://www.5min.com/Video/Learn-about-The-Tundra-117531340>

- National Geographic: Tundra

<http://environment.nationalgeographic.com/environment/habitats/tundra-profile/>