

Arctic Ice

A WebQuest for *Effects of Global Warming on the Arctic*

Introduction

Going. Going. Gone? The Arctic is warming. Temperatures have risen 2° Fahrenheit in the last decade. This increase might not seem like much, but increases in Arctic temperature can cause disruptions. Alaska has already experienced effects due to the Arctic warming such as drops in ground level, which have impacted roads and building structures. But, those more negatively affected are the wild animals that are losing their habitats and hunting grounds. Research organizations such as NASA and World Wildlife Foundation have completed extensive research that shows the effects of the Arctic warming. In this WebQuest, you will determine other effects the warming Arctic is causing locally in the Arctic and globally by researching organizations such as NASA and WWF.

Task

Your task is to research the effects the warming Arctic is causing globally and in the Arctic. Once your research is complete, you will create a pamphlet that helps others in your school understand the impact of the warming Arctic.

Research

Use the following questions to guide your research.
(Record your answers on the sheet provided)

1. What is the major global effect of the Arctic warming?
2. What are the direct effects (in the Arctic) of the Arctic warming?
3. What animals are affected by the warming Arctic?
4. Are there any laws or policies implemented to protect the Arctic or the animals in the Arctic?
5. What policies could be implemented to reduce warming in the Arctic?

Product

You will create an attractive, three-fold pamphlet that explains what effects the warming Arctic is causing globally and in the Arctic. You may produce the pamphlet by hand, or use a computer program to produce the finished product. Use art, text, and headings to inform the reader of the pamphlet about the policies that are in place to help protect either the Arctic or wildlife in the Arctic. Be sure to include visuals of receding ice and of the wildlife that are most affected. Use the research questions above to help you organize & design your pamphlet. Include any additional information you find interesting.

Resources

The World Wildlife Foundation and the National Aeronautics & Space Administration (NASA) have excellent Web sites that provide information on the effects of warming in the Arctic. Use other resources such as journal articles, magazines, and newspapers to get current event information regarding this controversial topic.

Evaluation

Read the following rubric to see how you will be scored on the WebQuest.

Criteria					Points
	0	5	10	15	
Task	The task was not completed.	Some effort was made, but major ideas are missing.	The task was completed, but some information was incorrect.	The task was completed with great attention to detail.	
Research	The process was not followed or used.	The process was followed, but not all information was obtained.	The process was followed, but some answers were incorrect.	It was clear that the information gathered was complete and informative.	
Product	The product was not done, or not done well and is incomplete.	The product included most of the required elements and important ideas. An attempt was made to make it appealing.	The product included all the required elements and some important ideas, and was visually appealing.	The product included all the required elements, was exceptionally appealing, and included extra, helpful information not asked for.	
Total Score					

Research

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