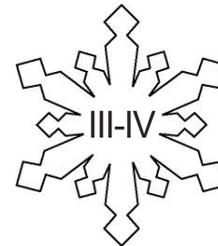


Changes Over Time Scavenger Hunt

Levels



Grades 5-8

Overview:

Students identify key information about climate change over time by navigating the *Global Climate* DVD and searching for answers to climate change-related questions.

Objectives:

The student will:

- interact with the *Global Climate* DVD;
- answer questions regarding climate changes, based on information in the *Global Climate* DVD; and
- write an article using knowledge about climate change.

Materials:

- *Global Climate* DVD
- STUDENT WORKSHEET: “Changes Over Time Scavenger Hunt”

GLEs Addressed:

- [5] SD2.1 The student demonstrates an understanding of the forces that shape Earth by describing how wind and water tear down and build up the Earth’s surface resulting in new land formations (i.e., deltas, moraines, and canyons).
- [6] SD2.3 The student demonstrates an understanding of the forces that shape Earth by describing how the surface can change rapidly as a result of geological activities (i.e., earthquakes, tsunamis, volcanoes, floods, landslides, avalanches).
- [7] SD1.2 The student demonstrates an understanding of geochemical cycles by explaining the water cycle’s connection to changes in the Earth’s surface.
- [8] SD1.2 The student demonstrates an understanding of geochemical cycles by applying knowledge of the water cycle to explain changes in the Earth’s surface.

Activity Procedure:

Distribute the *Global Climate* DVD and the STUDENT WORKSHEET: “Changes Over Time Scavenger Hunt.” Ask students to complete the worksheet by navigating through the DVD and answering the questions and filling in the blanks.

Critical Thinking Activity. Headlines: Ask students to write a short article, one to three paragraphs, using the following headline as a prompt: “Beringia Melting – Flood Imminent.” Invite them to pretend it is 20,000 thousand years ago and they are writing for the Berigina Times. Before writing, discuss the meaning of the prompt as a class. If necessary, explain the definition of the word imminent. Remember, Beringia existed 20,000 years ago; the great ice sheets that covered Beringia melted over time as the Earth warmed.

Answers:

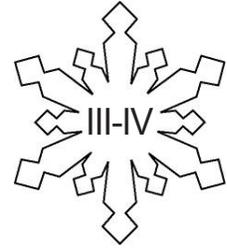
1. *The Bering Land Bridge between Russia and Alaska*
2. *Holocene Epoch*
3. *steppe, tundra and taiga*
4. *120, below*
5. *artemisia, kobresia, fescue*
6. *three of the following: mammoth, short-faced (sf) bear, American (am) lion, bison, Beringian horse, and saiga*

Name: _____

Student Worksheet

Changes Over Time Scavenger Hunt

Levels



Directions: Use the “Changes Over Time” unit on the *Global Climate* DVD to find the answers to the questions below.

1. What was Beringia? _____

2. In what geologic time do we currently live? _____

3. When oceans rose and flooded Beringia to form Alaska, _____ habitat was replaced by _____ and _____.

4. 20,000 years ago the sea level was _____ meters _____ (above/below) today's level.

5. Name three plants found on Beringia's broad plain. _____,
_____ and _____.

6. Find three animals that lived in Beringia's steppe habitat. _____,
_____ and _____.