

Unit 11 Section 4 Study Guide

Directions: Answer the following questions.

Reviewing Objectives Part 1:

1. Based on evidence from historical climate research (e.g., fossils, varves, ice core data) and climate change models, explain how the current melting of polar ice caps can impact the climate system. Pages: 225, 226, 431-434, 441, 455, 645
2. Use oxygen isotope data to estimate paleotemperature. Pages: 642

Reviewing Major Concepts Part 2: Chapter 18 section 3, Chapter 17 section 3

1. Identifying Relationships If Earth were to enter a new glacial period, how might coastlines around the world change?
2. Explain what happens to global sea level during a glacial period.
3. Identify the areas of Earth's surface that were covered by ice during the last glacial period.
5. Explain how fossils of marine animals provide evidence of past ice ages.

CRITICAL THINKING

7. Evaluating Hypotheses Use the information that you learned about glacial periods within an ice age to explain why volcanic eruptions and plate tectonics may not be among the causes of ice ages.