

Teacher Page: Core Case Study- The Real Cost of Gold (p. 273)

Unit: Unit 7

Grade Level Indicator:

Description:

Time: 25 minutes

Materials: Book page 273

Procedure:

Warm-up:

Instructional Strategies:

Assessment: Grade question, student participation

Variations: Do questions orally with teacher led instruction,

Interdisciplinary Connection:

Sample Data/ Answers: The answer key follows the student page.

Name _____ Date _____ Period _____

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1. How much mining waste is produced to make wedding rings? _____

2. What countries were the top producers of gold in 2008? _____

3. What chemical is used to extract gold? _____

4. In what 2 ways do cyanide pools threaten life?

1. _____

2. _____

5. What mining accident occurred in 2000 in Romania? _____

6. What were 3 major effects of this accident?

1. _____

2. _____

3. _____

7. How could this accident have been prevented? _____

Key

1. Approximately 5.5. metric tons (6 tons)
2. China, South Africa, United States, Australia, and Indonesia
3. Cyanide Salts
4.
 1. Toxic to birds and mammals
 2. Can leak or overflow into groundwater and nearby lakes and streams
5. Snow and heavy rains washed out an earthen dam leading to its collapse and release of cyanide and toxic metal into the Tisza and Danube Rivers
6.
 1. People told not to fish or drink from rivers and wells
 2. Food industries and paper mills shut down
 3. Thousands of fish and other aquatic plants and animals were killed
7. Installed a stronger containment dam and back-up collection pond to prevent leakage.

