Teacher Page: Case Study- The growing problem of Coal Ash (p. 307-308)

Unit: Unit 7

Grade Level Indicator:

Description:

Time: 25 minutes

Materials: Book page 307-308

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.

Na	ıme	Date	Period
	<u>Cas</u>	Date se Study: The growing problem of C	oal Ash (p. 307-308)
1.		are some of the products that come from bur	•
2.		are 3 positive uses of coal ash?	
	1.		
	2.		
	3.		
3.	Descr	ribe the accident that happened on December	22, 2008 near Knoxville,
	Tenne	essee.	
4.	Why was the accident such a problem?		
5.	What has the Environmental Integrity Project (EIP) recommend?		
6.	What reason have coal companies given to fight regulations on coal ash?		
Critical Thinking: With most of Ohio's electrical energy coming from burning			
CO	al, do	you support regulations on coal ash?	

Key

- 1. Arsenic, cadmium, chromium, lead, mercury, and radioactive radium
- 2.
- 1. Blended into cement and concrete
- 2. Used as a base for paving roads
- 3. Converted into wallboards for use in homes and offices
- 3. A pond released a large volume of coal ash sludge and flooded over 300 football fields.
- 4. Destroyed or damaged 40 homes, tainted water ways, and soils with arsenic
- 5. Phasing out all wet storage of coal ash
- 6. It would raise the price of electricity generated by their plants and make coal less competitive with other energy alternatives.

Critical Thinking: Answers will vary