Teacher Page: Case Study- Industrial Ecosystems: copying nature (p. 291)

Unit: Unit 7

Grade Level Indicator:

Description:

Time: 25 minutes

Materials: Book page 291

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
	Case Study: Industrial Ecosystems: copying nature
	(pages 291-292)
1.	According to one scientific principle of sustainability in nature, one
	organisms output of waste is another organisms
2.	What is a resource exchange web?
3.	What country has a functional electrical power plant that cycles all of its
	waste products?
4.	What other US city has modeled the ecoindustrial park?
5.	An abandoned industrial site is called a?
6.	Define industrial ecology?
7.	Biomimicry provides what types of economic benefits for businesses?
8.	List two other benefits of biomimcry.

Key

- 1. Input of energy
- 2. Wastes of one manufacturer becomes the raw material for another.
- 3. Kalundborg, Denmark
- 4. Chattanooga
- 5. Brownfields
- 6. Designing industrial/manufacturing sites around the principles of ecology
- 7. Encouraging recycling, pollution prevention, reduces the cost of waste management and pollution regulations.
- 8. Reduced healthcare costs, better public image, stimulates new ideas for problems.