

Human Impact on Resources

Chapter Preview

Before you read the chapter, use the “What I Know” column to list three things you know about human impact on Earth’s resources. Then list three questions you have about human impact on resources in the “What I Want to Find Out” column.

K What I Know	W What I Want to Find Out
1. _____ _____	1. _____ _____
2. _____ _____	2. _____ _____
3. _____ _____	3. _____ _____

SCIENCE JOURNAL

Think of the Launch Lab you did to explore the types of resources that you use and some of the global impacts of using them and record your responses in this science journal.

How many different resources are represented by the items in your collection?

What are the percentages of renewable and nonrenewable resources?

Where were each of the objects made?

Human Impact on Resources

SECTION 1 Populations and the Use of Natural Resources

MAIN IDEA	DETAILS
	<p>Skim Section 1 of your text. Look at the headings, photos, illustrations, and captions. Write three questions you have about the information you think may be covered in this section.</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p>
<p>Review Vocabulary</p> <p><i>population</i></p>	<p>Use your text to define the following term.</p> <p>_____</p> <p>_____</p>
<p>New Vocabulary</p> <p><i>exponential growth</i></p> <p><i>carrying capacity</i></p> <p><i>density-independent factor</i></p> <p><i>density-dependent factor</i></p>	<p>Use your text to define each term.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>Academic Vocabulary</p> <p><i>initial</i></p>	<p>Define the following term.</p> <p>_____</p>

SECTION 1 Populations and the Use of Natural Resources (continued)

MAIN IDEA

DETAILS

Resources and Organisms

Use with page 734.

Identify *four main resources that organisms need.*

1. _____
2. _____
3. _____
4. _____

Describe *three ways humans alter their environment.*

Resources and Population Growth

Use with page 735.

Explain *how as a population increases, its demand for natural resources increases as well.*

Draw *a typical population curve for a population that is experiencing exponential growth.*

SECTION 1 Populations and the Use of Natural Resources (continued)

MAIN IDEA

Limits to Population Growth

Use with pages 735–736.

DETAILS

Describe what happens to the number of births compared to the number of deaths in the following populations.

A population below carrying capacity	
A population at carrying capacity	
A population that exceeds carrying capacity	

Classify factors that affect population growth as either density-dependent factors or density-independent. Complete the concept map by drawing a circle around each factor you add.



Human Population Growth

Use with page 736.

Identify the current stage of human population growth on Earth: early, middle, or late. Explain your reasoning.

SYNTHESIZE

Describe what would have to happen for the human population on Earth to continue to grow exponentially. Explain why this is impossible.
