

Chapter 1 Introduction to Earth Science

Section 1.4 Earth System Science

This section describes Earth as a system of interacting parts.

Reading Strategy

Outlining As you read, make an outline of the most important ideas in this section. Begin with the section title, then list the green headings as the next step of the outline. Outline further as needed. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

I. Earth System Science

A. What Is a System?

1. _____

2. _____

B. _____

1. _____

2. _____

1. 🗑️ Earth is a(n) _____ made up of numerous interacting parts, or subsystems.

What Is a System?

2. 🗑️ A system can be any size group of interacting parts that form a complex _____.
3. What is a closed system? _____

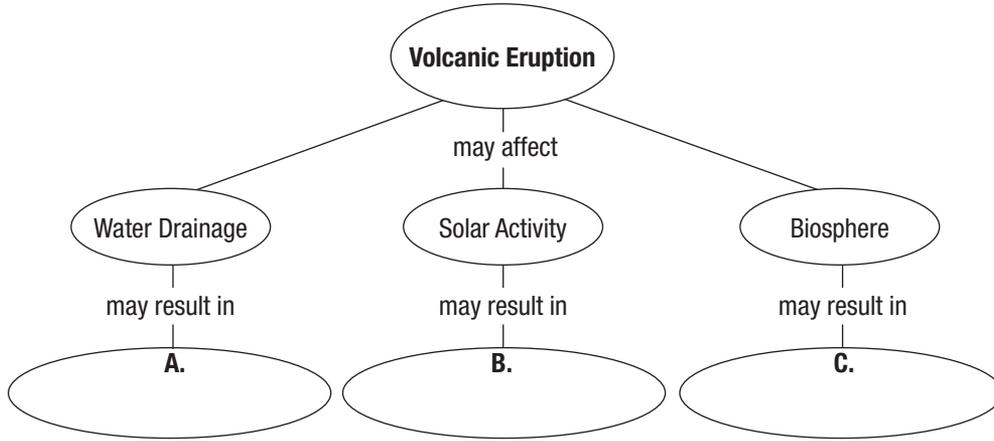
4. What is an open system? _____

Earth as a System

5. 🗑️ Is the following sentence true or false? The Earth system is powered by energy from the sun and Earth's exterior.

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6. Is the following sentence true or false? The sun drives external processes that occur in the atmosphere, hydrosphere, and at Earth's surface. _____
7. Complete the concept map below.



People and the Environment

8. Circle the letter of each statement that is true about nonliving things that make up the environment.
- a. Water and air are nonliving things that make up the environment.
 - b. Plants, animals, and microscopic organisms are nonliving things that make up the environment.
 - c. Temperature, humidity, and sunlight are conditions that make up the environment.
 - d. Soil and rock are nonliving things that make up the environment.

9. What are renewable resources? _____

10. Circle the letter of each item that is a nonrenewable resource.
- a. iron
 - b. petroleum
 - c. aluminum
 - d. natural fibers

Environmental Problems

11. Significant threats to the environment include _____,
 _____, _____, and _____.