

SECTION 1

Reinforcement

Earth's Atmosphere

Directions: Answer the following questions on the lines provided.

1. Which atmosphere layer contains electrically charged particles that reflect radio waves?

2. In which atmosphere layer(s) does the temperature increase as altitude increases?

3. In which atmosphere layer(s) does the temperature decrease as altitude increases?

Directions: Use the chart to answer questions 4–7.

Gas	Percent by volume	Gas	Percent by volume
A	78.09	Helium	trace
B	20.95	Methane	trace
Argon	0.93	Krypton	trace
Carbon dioxide	0.03	Xeron	trace
C	0.0 to 4.0	Hydrogen	trace
Neon	trace	Ozone	trace

4. What information does the chart show? _____

5. A, B, and C represent three different gases. What is A? _____

How do you know? _____

6. What is B? _____

How do you know? _____

7. What is C? _____

How do you know? _____

SECTION

1

Study Guide

Earth's Atmosphere

Chapter

4

Directions: Use the word bank provided to complete the summary paragraph about Earth's atmosphere.

atmosphere

heat absorbed

nitrogen

rays

balance

heat that escapes

oxygen

salt

dust

life-forms

ozone layer

gases

liquids

protective covering

Earth's (1) _____ is defined as a thin layer of air that forms a (2) _____ around the planet. It maintains a crucial (3) _____ between the amount of (4) _____ from the Sun and the amount of (5) _____ back into space. Earth's atmosphere also protects (6) _____ from the Sun's harmful (7) _____. The atmosphere is made up of a mixture of (8) _____, solids, and (9) _____. When Earth was young, there was little (10) _____ in the atmosphere. It contained mostly (11) _____ and carbon dioxide. As more plants grew, releasing oxygen through photosynthesis, Earth's atmosphere changed. Today, the atmosphere contains bits of (12) _____, (13) _____, and pollen, as well as liquid droplets. It is important to protect the (14) _____ in Earth's atmosphere so that it will continue to protect life on Earth from the Sun's harmful rays.

Directions: Arrange the four most common gases in Earth's atmosphere from most common to least common. (Hint: refer to Figure 2 in your textbook for additional help.)

Most common

Least common

