

The Atmosphere ▪ *Review and Reinforce*

The Air Around You

Understanding Main Ideas

Fill in the blanks in the table below.

Gases in Dry Air	Percent by Volume
Argon	1. _____
2. _____	0.038
Nitrogen	3. _____
4. _____	21

Answer the following questions on a separate sheet of paper.

5. Besides the gases shown in the table, what else is found in Earth's atmosphere?
6. What are two sources of carbon dioxide in air?
7. What are trace gases?
8. How does the atmosphere make conditions on Earth suitable for living things?
9. What are two processes that use oxygen?
10. Is the atmosphere always the same? Explain why or why not.

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition on the line beside the term.

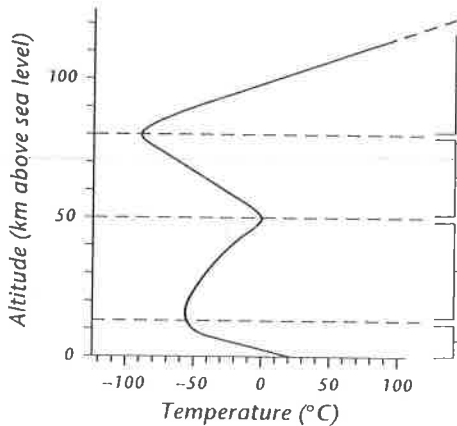
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|--|---|
| <p>_____ 11. weather</p> <p>_____ 12. atmosphere</p> <p>_____ 13. ozone</p> <p>_____ 14. water vapor</p> | <p>a. the envelope of gases that surrounds Earth</p> <p>b. a form of oxygen that has three oxygen atoms in each molecule instead of the usual two</p> <p>c. water in the form of a gas</p> <p>d. the condition of Earth's atmosphere at a particular time and place</p> |
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Layers of the Atmosphere

Understanding Main Ideas

The graph below shows altitudes and temperatures for the four main layers of the atmosphere. Label the four layers, and then complete the statements that follow.



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

5. The temperature in the atmosphere approaches -90°C at an altitude of about _____.
6. The highest temperatures in the atmosphere occur in the _____.
7. Temperatures generally rise as altitude increases in the _____ and _____ layers of the atmosphere.
8. As you move up through the mesosphere, the temperature _____.

Building Vocabulary

If the statement is true, write true. If it is false, change the underlined word or words to make the statement true.

- _____ 9. The layer of the atmosphere where weather occurs is the thermosphere.
- _____ 10. The mesosphere is the layer of the atmosphere that contains ozone.
- _____ 11. The exosphere is the outer layer of the thermosphere.
- _____ 12. Most meteoroids burn up in the stratosphere.
- _____ 13. The troposphere is divided into the ionosphere and the exosphere.
- _____ 14. The ionosphere lies between the mesosphere and exosphere.