

## THE OZONE LAYER worksheet

**DIRECTIONS:** Choose the correct term for each definition.

1. Layer in the stratosphere containing ozone, which absorbs ultraviolet radiation
  - A. Chlorofluorocarbons
  - B. Ozone layer
  - C. Ultraviolet radiation
  - D.  $\text{H}_2\text{O}_{\text{vapor}}$
2. Type of energy from the sun that can be harmful in large amounts
  - A. Chlorofluorocarbons
  - B. Ozone layer
  - C. Ultraviolet radiation
  - D.  $\text{H}_2\text{O}_{\text{vapor}}$
3. Chemicals used in some aerosol sprays, refrigerants, and some foam products
  - A. Chlorofluorocarbons
  - B. Ozone layer
  - C. Ultraviolet radiation
  - D.  $\text{H}_2\text{O}_{\text{vapor}}$

**DIRECTIONS:** Determine whether each of the following statements is true or false.  
**CIRCLE** the word "true" or "false". If the statement is false, rewrite it so that it is true.

- |      |       |   |
|------|-------|---|
| TRUE | FALSE | 4. The kind of oxygen we breathe can absorb ultraviolet radiation.                      |
| TRUE | FALSE | 5. If the ozone layer disappeared, cancer rates would be much higher than they are now. |
| TRUE | FALSE | 6. Chlorofluorocarbons are making the ozone layer thicker.                              |
| TRUE | FALSE | 7. The ozone layer acts as a shield between us and ultraviolet radiation.               |
| TRUE | FALSE | 8. A thick, unchanging layer of ozone covers the entire Earth.                          |
| TRUE | FALSE | 9. Ozone molecules destroy chlorofluorocarbon molecules.                                |

**DIRECTIONS:** Answer each statement below:

10. What is ozone?

11. Why is the ozone layer particularly important to life on Earth?

12. What is ultraviolet radiation?
13. Why is too much ultraviolet radiation harmful to plants and animals?
14. What makes scientists think that the ozone layer is disappearing?
15. Why is the ozone layer's disappearance a problem?
16. What chemicals are being blamed for damaging the ozone layer?
17. What are these chemicals used in?
18. How do chlorofluorocarbons destroy ozone?