

Introduction to Chemistry

Section 1.1 The Stories of Two Chemicals

In your textbook, read about the ozone layer.

Use each of the terms below just once to complete the passage.

atmosphere

oxygen gas

ozone

ozone hole

stratosphere

troposphere

ultraviolet radiation

Earth's **(1)** _____ is made up of several layers. The air we breathe makes up the lowest level. This layer is called the **(2)** _____. The next layer up is called the **(3)** _____. This level contains a protective **(4)** _____ layer.

Ozone forms when **(5)** _____ is struck by ultraviolet radiation in the upper part of the stratosphere. The ozone forms a layer around Earth, which absorbs **(6)** _____. Without ozone, you are more likely to get a sunburn or possibly skin cancer. The thinning of the ozone layer, called the **(7)** _____, is worrisome because without ozone all organisms on Earth are subject to harm from too much radiation.

In your textbook, read about chlorofluorocarbons.

For each statement below, write *true* or *false*.

- _____ **8.** CFC is another name for a chlorofluorocarbon.
- _____ **9.** CFCs are made up of carbon, fluorine, and cesium.
- _____ **10.** All CFCs are synthetic chemicals.
- _____ **11.** CFCs usually react readily with other chemicals.
- _____ **12.** CFCs were developed as replacements for toxic refrigerants.