

Ozone Layer Depletion Quiz Answer Key PDF

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What is the expected timeline for the ozone layer to recover to pre-1980 levels?

- A. By 2030
- B. By 2050 ✓**
- C. By 2070
- D. By 2100

What is the primary source of chlorine in the stratosphere that contributes to ozone depletion?

- A. Volcanic eruptions
- B. Sea spray
- C. CFCs ✓**
- D. Automobile emissions

What is the primary function of the ozone layer?

- A. To absorb carbon dioxide
- B. To absorb ultraviolet radiation ✓**
- C. To produce oxygen
- D. To regulate temperature

Which layer of the atmosphere contains the ozone layer?

- A. Troposphere
- B. Stratosphere ✓**
- C. Mesosphere
- D. Thermosphere

Which compound is most commonly associated with ozone layer depletion?

- A. Methane
- B. Chlorofluorocarbons (CFCs) ✓**
- C. Carbon dioxide
- D. Nitrous oxide

Which of the following is NOT an ozone-depleting substance?

- A. Halons
- B. Carbon tetrachloride
- C. Methane ✓**
- D. methyl chloroform

Which of the following is a health effect of increased UV radiation due to ozone depletion?

- A. Decreased skin cancer rates
- B. Increased eye cataracts ✓**
- C. Improved immune function
- D. Reduced sunburn risk

Which substances are classified as ozone-depleting substances (ODS)? (Select all that apply)

- A. CFCs ✓**
- B. Halons ✓**
- C. Carbon dioxide
- D. methyl bromide ✓**

What are the roles of polar stratospheric clouds in ozone depletion? (Select all that apply)

- A. They release active chlorine ✓**
- B. They absorb UV radiation
- C. They provide a surface for chemical reactions ✓**
- D. They increase greenhouse gas emissions

Which of the following are effects of ozone layer depletion? (Select all that apply)

- A. Increased skin cancer rates ✓**
- B. Higher crop yields

C. Damage to marine ecosystems ✓

D. Reduced atmospheric CO2 levels

Which of the following actions help protect the ozone layer? (Select all that apply)

A. Using air conditioners with CFCs

B. Supporting the Montreal Protocol ✓

C. Reducing the use of aerosol sprays ✓

D. Planting more trees

What are some challenges to the recovery of the ozone layer? (Select all that apply)

A. Illegal production of CFCs ✓

B. Natural disasters

C. Climate change impacts ✓

D. Overfishing

What international treaty was established to phase out ozone-depleting substances?

A. Kyoto Protocol

B. Paris Agreement

C. Montreal Protocol ✓

D. Geneva Convention

Which monitoring methods are used to measure ozone levels? (Select all that apply)

A. Satellite observations ✓

B. Ground-based spectrophotometers ✓

C. Weather balloons

D. Ocean buoys