

## **Ozone Layer Depletion Quiz Questions and Answers PDF**

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What is the expected timeline for the ozone layer to recover to pre-1980 levels?			
<ul> <li>○ By 2030</li> <li>○ By 2050 ✓</li> <li>○ By 2070</li> <li>○ By 2100</li> </ul>			
The ozone layer is expected to recover to pre-1980 levels by around 2060 to 2070, thanks to global efforts to phase out ozone-depleting substances under the Montreal Protocol.			
What is the primary source of chlorine in the stratosphere that contributes to ozone depletion?			
<ul> <li>Volcanic eruptions</li> <li>Sea spray</li> <li>CFCs ✓</li> <li>Automobile emissions</li> <li>The primary source of chlorine in the stratosphere that contributes to ozone depletion is chlorofluorocarbons (CFCs). These man-made compounds release chlorine atoms when they are broken down by ultraviolet radiation, leading to the destruction of ozone molecules.</li> </ul>			
What is the primary function of the ozone layer?			
<ul> <li>To absorb carbon dioxide</li> <li>To absorb ultraviolet radiation ✓</li> <li>To produce oxygen</li> <li>To regulate temperature</li> </ul>			
The ozone layer primarily functions to absorb the majority of the sun's harmful ultraviolet (UV) radiation, protecting living organisms on Earth from its damaging effects.			

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Which layer of the atmosphere contains the ozone layer?



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0	Troposphere  Stratosphere ✓  Mesosphere  Thermosphere		
	The ozone layer is primarily located in the stratosphere, which is the second layer of the Earth's atmosphere. This layer plays a crucial role in absorbing the majority of the sun's harmful ultraviolet radiation.		
Which compound is most commonly associated with ozone layer depletion?			
0	Methane  Chlorofluorocarbons (CFCs) ✓  Carbon dioxide  Nitrous oxide		
	Chlorofluorocarbons (CFCs) are the primary compounds responsible for ozone layer depletion, as they release chlorine atoms when they are broken down in the stratosphere, leading to the destruction of ozone molecules.		
Which of the following is NOT an ozone-depleting substance?			
0	Halons Carbon tetrachloride  Methane ✓ methyl chloroform		
	Ozone-depleting substances are primarily chlorofluorocarbons (CFCs), halons, and other related chemicals. Substances like carbon dioxide (CO2) do not deplete the ozone layer and are therefore not considered ozone-depleting.		
Which of the following is a health effect of increased UV radiation due to ozone depletion?			
_	Decreased skin cancer rates  Increased eye cataracts ✓  Improved immune function  Reduced sunburn risk		
	Increased UV radiation due to ozone depletion can lead to a higher incidence of skin cancer, cataracts, and other health issues. This is primarily because UV rays can damage skin cells and affect eye health.		

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Which substances are classified as ozone-depleting substances (ODS)? (Select all that apply)			
☐ CFCs ✓			
☐ Halons ✓			
☐ Carbon dioxide			
methyl bromide   ✓			
Ozone-depleting substances (ODS) include chlorofluorocarbons (CFCs), halons, carbon tetrachloride, and methyl chloroform, among others. These substances contribute to the depletion of the ozone layer, which protects the Earth from harmful ultraviolet radiation.			
What are the roles of polar stratospheric clouds in ozone depletion? (Select all that apply)			
☐ They release active chlorine ✓			
☐ They absorb UV radiation			
They provide a surface for chemical reactions ✓			
☐ They increase greenhouse gas emissions			
Polar stratospheric clouds (PSCs) play a crucial role in ozone depletion by providing a surface for chemical reactions that convert benign chlorine compounds into reactive forms that destroy ozone. These clouds are most prevalent in the polar regions during winter, facilitating the conditions necessary for significant ozone loss in the spring.			
Which of the following are effects of ozone layer depletion? (Select all that apply)			
☐ Increased skin cancer rates ✓			
Higher crop yields			
<ul><li>Damage to marine ecosystems ✓</li><li>Reduced atmospheric CO2 levels</li></ul>			
Ozone layer depletion leads to increased ultraviolet (UV) radiation reaching the Earth's surface, which can cause skin cancer, cataracts, and harm to ecosystems. It also affects climate patterns and can disrupt food chains.			
Which of the following actions help protect the ozone layer? (Select all that apply)			
Using air conditioners with CFCs			
Supporting the Montreal Protocol ✓			
<ul><li>Reducating the use of aerosol sprays ✓</li><li>Plantting more trees</li></ul>			
Flantling more trees			

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Actions that help protect the ozone layer include reducing the use of ozone-depleting substances, such as chlorofluorocarbons (CFCs), and supporting policies that promote the use of alternative chemicals and technologies. Additionally, increasing public awareness and education about the importance of the ozone layer can contribute to its protection.

What are some challenges to the recovery of the ozone layer? (Select all that apply)				
<ul> <li>□ Illegal production of CFCs ✓</li> <li>□ Natural disasters</li> <li>□ Climate change impacts ✓</li> <li>□ Overfishing</li> </ul>				
The recovery of the ozone layer faces challenges such as ongoing emissions of ozone-depleting substances, climate change impacts, and the presence of new chemicals that can harm the ozone lay	er.			
What international treaty was established to phase out ozone-depleting substances?				
<ul> <li>Kyoto Protocol</li> <li>Paris Agreement</li> <li>Montreal Protocol ✓</li> <li>Geneva Convention</li> </ul>				
The Montreal Protocol is an international treaty designed to phase out the production and consumption ozone-depleting substances, thereby protecting the ozone layer. It was adopted in 1987 and has been successful in reducing the use of harmful chemicals.				
Which monitoring methods are used to measure ozone levels? (Select all that apply)				
<ul> <li>Satellite observations ✓</li> <li>Ground-based spectrophotometers ✓</li> <li>Weather balloons</li> <li>Ocean buoys</li> </ul>				
Ozone levels are commonly measured using methods such as UV photometry, electrochemical senso and gas chromatography. These techniques provide accurate readings of ozone concentration in the atmosphere.	rs,			