

Topic/Objective CHAPTER: 11

NAME:

Pd: 1 2 4 5 other

DATE

Ozone

Essential Question

What is Ozone & CFC's pt1

Cue: Review:

Thoughts: Main Idea

Video

Video ^{only} :50-1:30

U.V. rays

What the harmful rays do to us?

Ozone Layer

What is the Ozone Layer?

NOTE Taking AREA:

what is ozone by Mocomi kids.

EARTH'S Atmosphere by Veronica Kimes
only watch from 0:50 sec to 1:30 sec

- Ultraviolet Radiation
- energy from the Sun that is harmful in large Amounts.
- Harmful rays from the Sun can cause:
 - 1) Skin Cancer
 - 2) Single cell organisms and Plants to dry up and die
 - 3) Environment ecosystems
- ⊕ is protected by a layer in the stratosphere called: the Ozone layer
- is about 3-5 mm thick and is high ~~con~~centration of Oxygen molecules

NOTES CONTINUE ON OTHER SIDE



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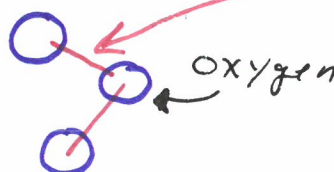
DATE

Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

What is
Ozone?

- Ozone is a molecule of 3 oxygen atoms that have been bonded together.

What's
Oxygen

SEE Chemistry NOTES for this Section

How does
Ozone form?

- Ozone forms when U.V. rays from the Sun SPLIT molecule of oxygen in half.

- now the single oxygen atom (O_1) attach themselves to an unharmful O_2 molecule ... forming O_3 or Ozone!

What
does Ozone
do for us?

- Ozone absorbs harmful ultraviolet rays and converts it into heat which warms up the layer of $\oplus$ atmosphere from $-50^\circ C$ to $-3^\circ C$
 $-62^\circ F$ to $27^\circ F$

SUMMARY:

what is
happening
to Ozone?

→ Ozone layer is getting thinner as if there are "holes" in it



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Atmosphere

Essential Question

What is Ozone?

Cue: Review:
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NOTE Taking AREA:

Ozone

→ 3 Oxygen Atoms **bonded** to form an oxygen molecule $\Rightarrow O_3$



chem

symbol

drawing

Ozone Layer

→ is about 3-5 mm thick

→ High concentration of Oxygen Molecules

→ it Protects  from **harmful U.V. rays**.

U. V. RAYS

→ **Ultra violet radiation**

sun

Harmful Ray

→ These harmful ray from the  can cause:

1.) Skin Cancer (form of sun burn)

2.) Single cell organisms and **plants** will dry up and **DIE!** 

3.) damage to environmental ecosystems.

NOTES CONTINUE ON OTHER SIDE



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Cue: Review:
Thoughts: Main Idea

NOTE Taking AREA:

How does
O₃ form?

↳ when **U.V. rays** from the Sun
Split the O₂ molecule in $\frac{1}{2}$

↳ Now the single oxygen Atom (O₁)
attach itself to an **unharmful**
O₂ molecule... to form O₃ (ozone)

What does
O₃ do for us

↳ O₃ absorbs the harmful U.V. rays
and converts it into HEAT

↳ this heat warms up the
Layer of ⊕'s atmosphere from
-62°F to 27°F (-52°C to -3°C)

Ozone
holes.

↳ O₃ layer is getting thinner as if
there are "holes" in it

SUMMARY:

Solve the
Problem

↳ We tried to "make" Ozone @ sea level
but when its released, the O₃ man made
molecule breaks apart.

↳ O₃ we make is called **Freon**