

AP Environmental Science

Name: _____ Score: _____

1. The **ozone layer** high in the atmosphere is important because it...
 - ☐ blocks harmful ultraviolet (UV) rays from the sun
 - ☐ gives us oxygen to breathe
 - ☐ makes it rain
 - ☐ creates gravity
2. The **Montreal Protocol** was a global agreement to...
 - ☐ phase out CFCs and other ozone-destroying chemicals
 - ☐ build more factories
 - ☐ burn more coal
 - ☐ cut down forests
3. The **greenhouse effect** is when gases in the atmosphere...
 - ☐ trap heat and keep the planet warm
 - ☐ block all sunlight
 - ☐ cool the planet down
 - ☐ create oxygen
4. The biggest human source of carbon dioxide is...
 - ☐ burning fossil fuels
 - ☐ breathing out
 - ☐ ocean waves
 - ☐ volcanoes only
5. What is the difference between weather and climate?
 - ☐ Weather is day-to-day; climate is the long-term average
 - ☐ They mean exactly the same thing
 - ☐ Climate is only about rain
 - ☐ Weather lasts for centuries
6. A thinner ozone layer lets more harmful _____ radiation reach the ground.

7. Because CFCs were banned, the ozone layer is slowly starting to _____.

8. The main greenhouse gas released by burning fossil fuels is carbon _____.

9. Cutting down forests raises CO₂ both by releasing carbon and by removing the trees that _____ it.

10. As ice melts and warm water expands, global sea _____ rises.

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1. **blocks harmful ultraviolet (UV) rays from the sun**

The **ozone layer** absorbs most of the sun's harmful UV rays, shielding life below.

2. **phase out CFCs and other ozone-destroying chemicals**

The **Montreal Protocol** (1987) had countries agree to phase out CFCs — a rare global success.

3. **trap heat and keep the planet warm**

The **greenhouse effect** is greenhouse gases trapping heat, keeping Earth warm enough for life.

4. **burning fossil fuels**

Burning **fossil fuels** for energy and transport is by far the largest human CO₂ source.

5. **Weather is day-to-day; climate is the long-term average**

Weather is what happens on a given day; **climate** is the long-term average over decades.

6. **UV**

Less ozone means more **UV** reaches us, raising skin cancer and eye damage.

7. **recover**

With CFCs falling, the ozone layer is beginning to **recover** — proof that global action works.

8. **dioxide**

Carbon **dioxide** (CO₂) is the main greenhouse gas humans add by burning fossil fuels.

9. **absorb**

Forests **absorb** CO₂; cutting them releases stored carbon *and* removes a carbon sink — a double hit.

10. **level**

Melting ice and expanding warm water both raise the sea **level**, threatening coastal cities.