
Critical Thinking

Critical thinking 3.1

Where is Your Tropopause?

The tropopause is at a higher altitude in summer due to surface heating and warming of the lower atmosphere.

Critical thinking 3.2

Finding Your Local Ozone

Personal answers depending upon student's location and season. An example is ozone measured by OMI over 38.00 degrees latitude - 121.00 degrees longitude on 2013/12/01 is 249 Dobson units.

Critical thinking 3.3

Evaluating Costs and Benefits

Personal answers, but one might be: The public is uninformed about the benefits of the CAA because it is not in the financial interest of the fossil-fuel industry for the public to be aware of the true cost of fossil-fuels.

Similar patterns exist for the CWA, hazard zoning, climate change, and the Endangerment Finding by the EPA. These are all examples where the profits of destructive actions go to the company creating the damage, but the costs are borne by all of us—an unacceptable and unfair externality.

GIA Questions and GEOquiz

Analyser: Which pollutants could be reduced by switching to low-sulfur coal and installing scrubbers in smokestacks?

These actions would likely reduce the sulfur oxides which would, in turn, lead to a decrease in the production of sulfuric acid in the environment.

Descriptor: List the steps in the process by which vehicle exhaust leads to the increased ozone levels in smog.

Internal combustion engines produce nitrogen dioxide. Ultraviolet radiation liberates atomic oxygen and a nitric oxide molecule from this. The free oxygen atom combines with an oxygen molecule to form ozone. In the upper atmosphere the ozone protects us from UV radiation. At ground level, ozone is a reactive gas that damages biological tissues and causes a variety of detrimental health effects like lung irritation, asthma, and leads to respiratory illness.

1. Predict: In relation to a coal-fired power plant, where might industrial smog and serious air pollution problems occur? What mitigation strategies exist? Explain.

Coal-fired power plants are the main source of sulfur oxides. They also produce sulfate aerosols, mercury, particulates, and carbon dioxide. Industrial smog and air pollution would result downwind of the plant, especially if there are natural factors such as valleys or inversion layers present.

Mitigation strategies include investing in sustainable, renewable sources of energy like wind and solar power.

2. Compare and Contrast: How are the pollutants carbon monoxide and nitrogen dioxide similar? How are they different?

Carbon monoxide and nitrogen dioxide are both produced by combustion; however, CO is odorless, colourless, and tasteless while NO₂ is a reddish-brown choking gas that leads to acid deposition, inflames the respiratory system, and destroys lung tissue. CO does have health issues in that it replaces oxygen in hemoglobin, which can lead to unconsciousness and death.

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Masteringgeography Chapter 4

Rachel Sandford



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