

Question:

Physics

Smog is a general pollutant where

- 1 temperature is high
- 2 temperature is low
- 3 air contains excess ammonia
- 4 air contains excess SO₂

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Concept:

Smog

Smog is a kind of air pollution, originally named for the **mixture of smoke and fog** in the air. Classic smog results from large amounts of **coal burning** in an area and is caused by a mixture of **smoke and sulfur dioxide** . In the 1950s a new type of smog, known as **Photochemical Smog** , was first described. Smog is a problem in a number of cities and continues to harm human health. Ground-level ozone, sulfur dioxide, nitrogen dioxide carbon monoxide are especially harmful for senior citizens, children, and people with heart and lung conditions such as emphysema, bronchitis, and asthma. It can inflame breathing passages, decreasing the lungs' working capacity, and causing shortness of breath, pain when inhaling deeply, wheezing, and coughing. It can cause eye and nose irritation and it dries out the protective membranes of the nose and throat and interferes with the body's ability to fight infection, increasing susceptibility to illness. Smog can form in almost **any climate** where industries or cities **release large amounts of air pollution** . However, it is worse **during periods of warmer, sunnier weather** when the **upper air is warm enough** to inhibit vertical circulation. It is especially prevalent in **geologic basins** encircled by hills or mountains.

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