

1. Fill in the blanks:

- a. The most abundant gas in the Earth's atmosphere is _____.
- b. The greenhouse effect is caused by the trapping of heat by _____ gases.
- c. _____ is a major air pollutant released during the burning of fossil fuels.

2. True or False:

- a. The ozone layer is located in the troposphere. ()
- b. Human activities, such as deforestation, have no impact on the composition of the atmosphere. ()
- c. The primary source of nitrogen for plants is nitrous oxide. ()

3. Short Answer:

- a. Explain the role of the ozone layer in protecting life on Earth.
- b. How do human activities contribute to the increase in greenhouse gases in the atmosphere?

Answers:

1. Fill in the blanks:

- a. The most abundant gas in the Earth's atmosphere is **nitrogen**.
- b. The greenhouse effect is caused by the trapping of heat by **greenhouse** gases.
- c. **Sulfur dioxide (SO₂)** is a major air pollutant released during the burning of fossil fuels.

2. True or False:

- a. False (The ozone layer is located in the stratosphere.)
- b. False (Human activities, such as deforestation, do have an impact on the composition of the atmosphere.)
- c. False (The primary source of nitrogen for plants is ammonia/nitrogen-fixing bacteria.)

3. Short Answer:

- a. The ozone layer protects life on Earth by absorbing and blocking harmful UV radiation from the Sun, which can cause skin cancer and other health issues.
- b. Human activities contribute to the increase in greenhouse gases by burning fossil fuels, releasing carbon dioxide and other gases that enhance the greenhouse effect.