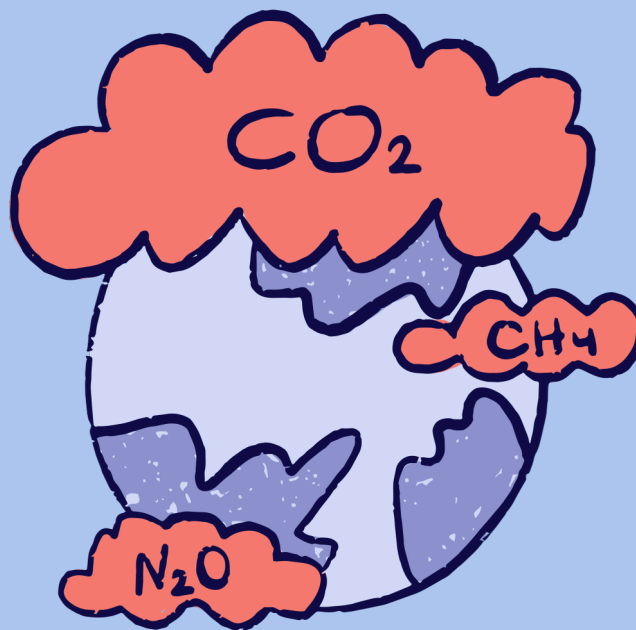


QUIZ 2 - SCIENTIFIC EVIDENCE ON CLIMATE CHANGE AND GREENHOUSE GASES



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Instruction

Below are 10 questions about the scientific evidence presented in class on climate change and greenhouse gases. Select one correct answer for each question.

1. What is the main source of carbon dioxide emissions worldwide?

- a) Agriculture
- b) Road transport
- c) Energy consumption in industry
- d) Biomass burning

2. In which year did CO₂ concentration reach 411 parts per million (ppm) according to data from the Mauna Loa Observatory?

- a) 1959 r.
- b) 2000 r.
- c) 2019 r.
- d) 1970 r.

3. By what percentage has the concentration of methane in the atmosphere increased since pre-industrial times?

- a) 20%
- b) 50%
- c) 100%
- d) 150%

4. Which of the following greenhouse gases has the highest "warming potential" over a 100-year period?

- a) Carbon dioxide (CO₂)
- b) Methane (CH₄)
- c) Nitrous oxide (N₂O)
- d) Hydrofluorocarbons (HFCs)



5. What processes are the main source of methane emissions?

- a) Cement and chemical production
- b) Biomass burning and agriculture
- c) Industry and road transport
- d) Waste management and rice cultivation

6. What CO₂ concentration has not been exceeded for the last 800,000 years until present times?

- a) 260 ppm
- b) 280 ppm
- c) 300 ppm
- d) 320 ppm

7. What is the average lifetime of methane in the atmosphere?

- a) 12 years
- b) 50 years
- c) 100 years
- d) 200 years

8. Which of the following phenomena is considered to be an "amplifier" of the greenhouse effect, not its driving force?

- a) Increased CO₂ concentration
- b) Decrease in sea ice
- c) Increase in water vapor
- d) Ocean acidification

9. How has the average global temperature changed since 1900?

- a) It has increased by about 0.5°C
- b) It has increased by about 1°C
- c) It has decreased by 0.5°C
- d) It has remained unchanged

10. Which of the following regions of the world is responsible for the greatest absolute emissions of greenhouse gases?

- a) Africa
- b) South America
- c) European Union
- d) Australia