

Name: _____ Date: _____

Nail the Climate Science Quiz for 6th Grade

Identify heat-trapping gases and recognize how shifting weather patterns affect real-world ecosystems in this foundational comprehension challenge.

1. Which of these is a common greenhouse gas that acts like a blanket, trapping heat in Earth's atmosphere?

- A. Oxygen
- B. Nitrogen
- C. Carbon Dioxide
- D. Helium

2. True or False: The 'Greenhouse Effect' is a natural process that helps keep Earth warm enough for life to exist.

- A. True
- B. False

3. What is the difference between 'weather' and 'climate'?

- A. Weather is long-term, climate is daily
- B. Weather is what happens today; climate is the average over many years
- C. There is no difference between them
- D. Weather only happens in the summer

4. When oceans get warmer, it can cause _____, which turns colorful sea habitats white and makes them unhealthy.

- A. Saltification
- B. Coral bleaching
- C. Ocean freezing
- D. Tidal waves

5. Which change is an example of an 'Impact' of a warming planet?

- A. Using LED lightbulbs
- B. Glaciers and ice sheets melting
- C. Planting a vegetable garden
- D. Riding a bicycle to school

6. The process of cutting down large areas of forests, which prevents trees from sucking up CO₂, is called _____.

- A. Agriculture
- B. Photosynthesis
- C. Deforestation

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D. Irrigation

7. True or False: Renewable energy sources, like wind and solar, release very little to no greenhouse gases compared to coal.

- A. True
- B. False

8. If a city builds a large wall to stop the ocean from flooding streets as sea levels rise, this is an example of:

- A. Pollution
- B. Deforestation
- C. Adaptation
- D. Extinction

9. Scientists study ancient air bubbles trapped in _____ to learn what Earth's atmosphere was like thousands of years ago.

- A. Volcanoes
- B. Ice cores
- C. Sand dunes
- D. Cloud vapor

10. True or False: Individual actions, like recycling and saving electricity, have no impact on protecting the environment.

- A. True
- B. False