

Name: _____ Date: _____

Feeling the Heat: A 7th Grade Chill-Pill for Climate Change

Imagine explaining the Earth's warming blanket to a younger sibling using concepts like permafrost thaw and the power of volcanic ash.

1. Which of these is a 'natural' contributor to climate change that is not caused by humans?

- A. Building large factories
- B. Volcanic eruptions
- C. Driving gasoline cars
- D. Cutting down rainforests

2. Scientists often study ice _____ to see what the Earth's atmosphere was like thousands of years ago.

- A. cubes
- B. sculptures
- C. cores
- D. sheets

3. True or False: The Greenhouse Effect is a completely bad thing that Earth doesn't need.

- A. True
- B. False

4. When permafrost (frozen ground) thaws in places like Siberia, what potent greenhouse gas is released?

- A. Oxygen
- B. Argon
- C. Methane
- D. Nitrogen

5. Switching a city's buses from diesel to _____ power is an example of a mitigation strategy.

- A. electric
- B. coal
- C. wood
- D. steam

6. What is the main reason sea levels rise when the planet warms up?

- A. More people are swimming in the ocean
- B. Increased rainfall over the Sahara desert
- C. Thermal expansion and melting land ice
- D. Underwater volcanoes erupting more often

7. True or False: Planting 'urban forests' in hot cities is an example of an adaptation strategy.

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- A. True
- B. False

8. The _____ Protocol was one of the first major international agreements where countries promised to reduce greenhouse gases.

- A. London
- B. Kyoto
- C. New York
- D. Sydney

9. Which of these everyday actions helps reduce your individual carbon footprint?

- A. Leaving the lights on all day
- B. Using a clothes dryer for every load
- C. Walking or biking to school
- D. Buying products with extra plastic wrapping

10. True or False: Weather and Climate mean exactly the same thing.

- A. True
- B. False