

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Operation Frosty: 5th Grade Climate Rescue Quest

Suit up for a mission to identify how our atmosphere stays warm and what humans can do to keep our planet balanced.

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**1. Imagine the Earth is wearing an invisible 'jacket' made of gases that keeps us warm. What do scientists call this process?**

- A. The Solar Powered Oven
- B. The Greenhouse Effect
- C. The Arctic Breeze
- D. The Cloud Shield

**2. True or False: Using a bicycle instead of a car for short trips is a way to help reduce the gases that cause global warming.**

- A. True
- B. False

**3. Most cars and trucks use \_\_\_\_\_, which release carbon dioxide when they are burned for energy.**

- A. Electric magnets
- B. Fossil fuels
- C. Solar rays
- D. Wind power

**4. As the Earth's temperature rises, what happens to the large glaciers and ice sheets at the North and South Poles?**

- A. They turn into solid rock
- B. They grow much larger
- C. They stay exactly the same
- D. They begin to melt into the ocean

**5. True or False: Climate change ONLY means that every single day will be hotter than the day before.**

- A. True
- B. False

**6. People can use 'green' energy from the \_\_\_\_\_ to produce electricity without creating smoke or pollution.**

- A. Sun
- B. Moon
- C. Clouds
- D. Soil

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**7. Which of these is a way that trees help the Earth stay cool?**

- A. They block all the sunlight from hitting the ground
- B. They breathe in carbon dioxide and store it
- C. They act like giant fans that blow cold air
- D. They turn into ice during the summer

**8. True or False: Recycling a soda can helps the environment because it takes less energy to move or make new things.**

- A. True
- B. False

**9. If the sea level rises due to melting ice, which type of area would be most affected?**

- A. High mountain peaks
- B. Deep underground caves
- C. Cities built near the ocean
- D. Dry sandy deserts

**10. To help the planet, many families are switching to \_\_\_\_\_ light bulbs that use much less electricity.**

- A. Glass
- B. Candle
- C. LED
- D. Heavy