

Name: _____ Date: _____

Beat the Heat: Greenhouse Gas and Weather Wonders for Grade 4

Identify the invisible gases trapping heat and spot the difference between daily weather and long-term patterns in this climate mission.

1. Which of these is an example of 'climate' rather than 'weather'?

- A. It is raining very hard today.
- B. A big thunderstorm passed through this morning.
- C. The desert usually gets very little rain each year.
- D. The wind is blowing at 10 miles per hour right now.

2. True or False: The 'Greenhouse Effect' works a bit like a blanket that keeps the Earth warm enough for us to live.

- A. True
- B. False

3. When we drive cars that use gasoline, we release a gas called _____ dioxide into the air.

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

4. Why are some animals, like pikas or polar bears, struggling because of climate change?

- A. Their habitats are getting too cold for them.
- B. Their homes are changing or melting as the Earth warms.
- C. They are choosing to move to the city.
- D. They have too much food to eat.

5. True or False: Planting new trees can help fight climate change because trees soak up carbon dioxide.

- A. True
- B. False

6. Energy that comes from the sun is called _____ energy and does not pollute the air.

- A. Coal
- B. Wind
- C. Solar
- D. Gas

7. What happens to the ocean when the Earth's temperature gets warmer?

- A. The water level goes down.
- B. The water turns into ice.

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- C. The sea level rises because of melting glaciers.
- D. The ocean disappears completely.

8. Instead of throwing everything away, we can _____ paper, plastic, and metal to save energy.

- A. Recycle
- B. Burn
- C. Bury
- D. Ignore

9. True or False: Using a bicycle instead of a car for short trips can help the environment.

- A. True
- B. False

10. Which of these is a way to save electricity at home to help the planet?

- A. Leaving the TV on all night.
- B. Turning off the lights when you leave a room.
- C. Opening the fridge and leaving the door open.
- D. Keeping every light in the house on.