

Name: _____ Date: _____

Answer Key: A Change in the Air: A 2nd Grade Climate Care Quiz

Examine our planet's health through 10 friendly questions that look past local weather to see how big global changes happen.

1. Imagine the atmosphere is like a cozy blanket around the Earth. What happens if that blanket gets too thick?

Answer: B) The Earth gets warmer

Just like a thick blanket traps your body heat, a thicker layer of greenhouse gases traps more of the sun's heat, making the planet warmer.

2. True or False: Using a bicycle instead of a car can help keep the air cleaner and help the Earth.

Answer: A) True

Bicycles don't blow smoke or gases into the air, which helps prevent the 'Earth's blanket' from getting too thick.

3. When we plant more _____, they help by breathing in the gases that make the Earth too warm.

Answer: B) Trees

Trees and plants act like a vacuum for carbon dioxide, taking it out of the air to help keep the climate balanced.

4. Which animal might have a hard time finding a place to rest if too much sea ice melts?

Answer: C) A polar bear

Polar bears live in the Arctic and rely on sea ice to travel and hunt. When it melts, their habitat changes.

5. True or False: Every time the weather changes from sunny to rainy, that is called 'Climate Change.'

Answer: B) False

Weather is what happens outside today. Climate is the pattern of weather over a very long time, like many years.

6. To help the planet, we can turn off the _____ when we leave a room to save energy.

Answer: A) Lights

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Saving electricity means power plants don't have to work as hard, which reduces the gases that cause warming.

7. What is one way the ocean changes when the Earth gets warmer?

Answer: A) The water level rises

When the Earth warms, ice on land melts into the sea and the water itself expands, causing sea levels to rise.

8. True or False: Recycling our plastic and paper is one small way to help take care of the Earth.

Answer: A) True

Recycling uses less energy than making brand new things, which is better for our environment and climate.

9. Climate change can make the weather more _____, like having very long heatwaves or bigger storms.

Answer: B) Extreme

Extreme weather means it is much stronger or different than what we usually expect, which can happen as the planet warms.

10. Where does the extra heat stay when greenhouse gases trap it?

Answer: B) In the atmosphere

The atmosphere is the air surrounding the Earth. This is where the gases trap the sun's heat.