

Greenhouse Gases and Climate Change

Pre Climate Quiz

Resources: NASA

Name: _____ Date: _____ Block: _____



Circle the best answer

1. Which greenhouse gas is abundant in Earth's atmosphere?

- a. Carbon dioxide
- b. Water vapour
- c. Goat burps
- d. Cow gas

2. Why is it a good idea to turn off lights and other electronics when you are not using them?

- a. Because your parents might think you're on social media when you should be doing your homework.
- b. Because all that energy comes from somewhere, and it may be coming from a power plant that is burning fossil fuels.
- c. Because the lights will lose energy after a long run of being on.
- d. Because turning the lights off reduces energy draw.
- e. B and D

3. Trees can help remove carbon dioxide (greenhouse gas) from the atmosphere by

- a. Creating their own food using photosynthesis
- b. Obstructing the area around them with their branches and great height.
- c. Taking it in from the air for growth
- d. Giving incredible heat that protects the Earth
- e. A and C



4. Why are electric cars a good way to help reduce global warming?

- a. They don't burn fossil fuels.
- b. They can adapt easily to smooth and rough terrain as well as the atmosphere.
- c. They don't release greenhouse gases to the atmosphere.
- d. Both A and B
- e. Both A and C

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5 Without the Greenhouse effect

- a. There would be no life on Earth.
- b. The Earth would be a frozen wasteland.
- c. Both A and B
- d. None of the above

6. Global warming causes sea levels to rise because

- a. It causes glaciers and ice caps to melt, placing more water into our oceans
- b. It prevents ice and glaciers from forming, and slows down how much water is removed from the ocean each winter.
- c. Hotter things expand, and as the ocean becomes warmer, its volume increases
- d. All of the above



7. Global warming can be caused by

- a. Ice cube companies removing ice from the arctic and selling the pieces for massive profit.
- b. Humans releasing carbon dioxide and other greenhouse gases (GHG) into the atmosphere
- c. Carbon dioxide being released into the atmosphere
- d. B and C

8. Clean energy

- a. Is a form of energy that does not release greenhouse gases or other pollutants into the atmosphere
- b. Does not use fossil fuels.
- c. Is solar power and wind power
- d. A, B, and C