



High School Science Virtual Learning

**Environmental Science**

**Global Warming**

April 22, 2020



# High School Environmental Science

## Lesson: April 22, 2020

### **Objective/Learning Target:**

Students will be able to describe what Global Warming is.



1. What is the Vienna Convention on Ozone Protection?
2. What is the Montreal Protocol?

1. Served as the framework convention for the Montreal Protocol and laid the groundwork for it.
2. A treaty among developed and developing nations to decrease or eliminate various ozone depleting substances.



## Lesson Activity:

### Directions:

1. Read the article linked below and then watch the video.
2. Take detailed notes about global warming as you go through both on a separate piece of paper.
3. Write a PSA to inform others about global warming. Your PSA should be no more than 5 paragraphs and take no more than 5 minutes to get through.

### Link(s):

[Article Link](#)

[Video Link](#)

[How to Write a PSA](#)



# Practice

You will use the information from the activity on slide 5 to answer the following questions.



# Practice Questions

1. What is global warming?
2. What is the primary cause of global warming?
3. Is global warming manmade or a natural occurrence?
4. Why is the current rate of global warming a concern?
5. What are some human caused impacts that have increased the rate of global warming?



# Answer Key

Once you have completed the practice questions check with the work.

1. Global warming is the process of global average temperatures rising due to human caused events.
2. The primary cause of global warming is the increased amount of greenhouse gases being released from human caused effects.
3. Temperatures naturally do cycle through times of high and lows
4. The current rate of global warming is a concern because it is changing climate faster than organisms are able to adapt.
5. Industrial Revolution, driving cars, breathing, etc.





# More Practice

You will use the information from the activity on slide 5 to answer the following questions.



## More Practice Questions

1. What would happen if we did not have an atmosphere?
2. What are common greenhouse gases?
3. Are greenhouse gases always bad?
4. What happens when sea temperatures rise?
5. What type of earth's surface has the highest reflection rate of solar energy?

# Answer Key

Once you have completed the practice questions check with the work.

1. The earth would radiate as much energy as it absorbs from the sun.
2. Water vapor and carbon dioxide.
3. No greenhouse gases are only bad when you have too many. Normally these gases help maintain the temperatures across the earth. Too much greenhouse gases cause increased temperature.
4. Sea's can dissolve less carbon dioxide causing a release of more greenhouse gases.
5. Snow has the highest reflection rate of solar energy at 80-90% reflection.



## Extra Resources

Here is another reading concerning global warming if you want more information:

[Global Warming Basics](#)

Here is another video about global warming: [Global Warming Video](#)