



High School Science Virtual Learning

Environmental Science

Carbon Footprint

May 04 , 2020



High School Environmental Science

Lesson: May 04, 2020

Objective/Learning Target:

Students will understand their impact on the environment.



Let's Get Started:

1. How do humans contribute to the greenhouse effect?
2. What is global warming?



Let's Get Started: **Answer Key**

1. **Sample answers could discuss burning fossil fuels, releasing carbon dioxide and CFCs into the atmosphere.**
2. **Global warming is the unnatural increase in global average temperatures due to an increase in the greenhouse effect.**



Lesson Activity:

Directions:

1. Read the information at the link.
2. Answer the questions on the following slides.

Links: [Carbon footprint reading](#)



Practice

Complete the following questions using the information you learned during the lesson activity.



Questions:

1. What happens when greenhouse gas levels get too high?
2. What are some possible results from climate change?
3. What is a carbon footprint?
4. Name at least two activities that can contribute to your carbon footprint.
5. What is the difference between direct and indirect emissions?
6. Why is it important for people to try to reduce their carbon footprints?



Once you have completed the practice questions check with the **answer** key.

1. Climate change
2. This can lead to more storms such as hurricanes and snowstorms and can limit our ability to grow crops for food.
3. The amount of greenhouse gases that are emitted in the air because of your activities is your carbon footprint.
4. heating your house, how you get to school, and how much trash you throw away.
5. Direct emissions are the result of your own activities, indirect emission happen somewhere else such as a factory or plant something was made or produced.
6. It is important to reduce your carbon footprint so that the levels of greenhouse gases in the atmosphere return to their natural levels. The natural levels of greenhouse gases keep the climate at a level that is healthy and safe for people. To avoid natural disasters or extreme temperatures, which can hurt people, we must keep the level of greenhouse gases at their natural levels.



More Practice:

Follow the link below to determine your own carbon footprint. You will need to ask your parents for copies of utility bills.

1. Calculate your carbon footprint using the online calculator
2. Develop a plan to reduce your carbon footprint. Write down your goals and how you will attempt to achieve them.

Link: [Carbon Footprint Calculator](#)



Additional Resources:
Click on the link below for additional information.

[Carbon Footprints](#)