



High School Science Virtual Learning

Environmental Science

Reducing Climate Change

April 30, 2020



High School Environmental Science

Lesson: April 30, 2020

Objective/Learning Target:

Students will be able to identify different ways to Reduce Climate Change.



1. What is climate change?

2. What is a sign of climate change?



1. An abrupt increase in Earth's global temperatures.
2. Increased extreme weather events.



Lesson Activity:

Directions:

1. Read the article and watch the video linked below. While doing so, take careful notes about the different ways one can reduce climate change.
2. After watching and reading, come up with and write out a plan on how your house can reduce climate change. Your plan should have 5 ways that your family can reduce how they contribute to climate change. You also need to come up with how you will sell your family on this plan and get them involved in it as well.

Link(s):

[Article 1](#)

[Video](#)



Practice

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



Practice Questions

1. If we stopped emitting greenhouse gases today would climate change continue?
2. Why or why not?
3. What is the two pronged approach we should use to respond to climate change?
4. What is mitigation?
5. What is adaptation?

Answer Key

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

1. Yes
2. Carbon dioxide lingers in the atmosphere for hundreds of years so even if we were to stop emitting these gases today the effects would be felt for generations.
3. The two pronged approach involves mitigation and adaptation.
4. Mitigation is reducing emissions of and stabilizing the levels of heat-trapping gases in the atmosphere.
5. Adaptation is adapting to the climate change already in the pipeline.



More Practice

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



More Practice Questions

1. How does mitigation reduce climate change?
2. What is the goal of mitigation?
3. What does it mean to adapt to life in a changing climate?
4. What is the goal of adaptation?
5. Are humans new to adaptation?

Answer Key

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

1. Mitigation of climate change involves reducing the flow of heat trapping greenhouse gases into the atmosphere.
2. The goal of mitigation is to avoid significant human interference with the climate system, and “stabilize greenhouse gas levels in a timeframe sufficient to allow ecosystems to adapt naturally to climate change, ensure that food production is not threatened and to enable economic development to proceed in a sustainable manner”
3. To adapt to life in a changing climate you must adjust to the actual or expected future climate.
4. The goal is to reduce our vulnerability to the harmful effects of climate change
5. No. Throughout history, people and societies have adjusted to and coped with changes in climate and extremes with varying degrees of success. Climate change (drought in particular) has been at least partly responsible for the rise and fall of civilizations.



Extra Resources

Here is more information about the different types of ways you can work reduce climate change: [Ways to Reduce Climate Change](#)

Still want more information on how to reduce climate change? Here is another excellent article: [Reducing Climate Change](#)

Wanting to make a change and want more research about the different ways you can do that? This article provides some of that research for you: [Climate Change and Ways to Reduce It](#)