



Student Worksheet

Name: _____

Date: _____

Webinar Opening

1. What does ACE stand for? What word did you add to the word cloud?
2. What do you already know about climate change and its impact on your life?

Our Climate Our Future LIVE Presentation

3. How many Earths will we need to have enough resources if the whole world lived like Americans?
4. Living large means we use a lot of energy. What are three ways people use energy in their daily lives?
5. Describe the environments 300 million years ago that eventually formed coal, oil and natural gas.
6. What percent of the energy used today comes from fossil fuels?
7. What is produced and released into the atmosphere when people burn fossil fuels?
8. What percentage of the atmosphere is made up of greenhouse gases like carbon dioxide, water vapor, and methane?
9. Over the last 800,000 years before humans existed, CO₂ levels in the atmosphere have stayed below _____ PPM. Today, CO₂ levels are over _____ PPM.

10. People who are the least responsible for producing CO₂ pollution are often the ones who suffer the most from climate change. Addressing this problem is called _____.

Earth Day Live

11. This year we are celebrating the ____ anniversary of Earth Day.
12. What is one way you can participate in the Earth Day Celebrations?

Conversation with Xiuhtezcatl and Vic

13. How did Xiuhtezcatl and Vic get started in becoming climate activists?
14. Was there a story shared that inspired you today from our guests? What was it?
15. BONUS- Ask a question to the moderator for the panelist to answer.

Outro

16. What is one action you plan to take after today?
17. Participate in the final zoom poll!

Student Worksheet Answer Key

Webinar Opening

1. What does ACE stand for?/ **Alliance for Climate Education** What word did you add to the word cloud? **Answers will vary**
2. What do you already know about climate change and its impact on your life? **Answers will vary according to students' background knowledge.**

Our Climate Our Future LIVE Presentation

3. How many Earths will we need to have enough resources if the whole world lived like Americans?
5 planet Earths
4. Living large means we use a lot of energy. What are three ways people use energy in their daily lives?

Growing food, making our stuff, moving ourselves around, and powering our lives.

5. Describe the environments 300 million years ago that eventually formed coal, oil and natural gas.

The environment on land that formed coal was warm and swampy with large trees and plants. When these died, they were buried underground and “cooked” by heat and pressure over millions of years to produce coal. Oil and gas were produced by a similar process in the ocean from decomposing plankton that fell to the seafloor, was buried deep in the Earth over time and cooked into oil and, with further heat and pressure, natural gas.

6. What percent of the energy used today comes from fossil fuels?
80%
7. What is produced and released into the atmosphere when people burn fossil fuels?
Carbon dioxide (CO₂)
8. What percentage of the atmosphere is made up of greenhouse gases like carbon dioxide, water vapor, and methane?
Less than 1%

9. Over the last 800,000 years before humans existed, CO₂ levels in the atmosphere have stayed below **300 PPM**. Today, CO₂ levels are over **400 PPM**.



18. People who are the least responsible for producing CO₂ pollution are often the ones who suffer the most from climate change. Addressing this problem is called **climate justice**.

Earth Day Live

10. This year we are celebrating the **50th** anniversary of Earth Day.
11. What is one way you can participate in the Earth Day Celebrations? **Answers will vary**

Conversation with Xiuhtezcatl and Vic

12. How did Xiuhtezcatl and Vic get started in becoming climate activists? **No one correct answer**
13. Was there a story shared that inspired you today from our guests? What was it?
No one correct answer
14. BONUS- Ask a question to the moderator for the panelist to answer. **No one correct answer**

Outro

15. What is one action you plan to take after today? **No one correct answer**
16. Participate in the final zoom poll. **No one correct answer**