

Name:

Date:

Class:

## Environmental Impact StoryMap #3: Transportation & Environment

Instructions: Complete the following questions as you explore the [Environmental Impact StoryMap #3 Transportation & Environment](#)

StoryMap #3 Link: <https://storymaps.arcgis.com/stories/fee3438206d545eb9fe2e7057f241551>

**Think About It: Watch the [video](#) and think about what you observe:**

1. How much carbon is in a gallon of gasoline, which is a fossil fuel?
2. What happens when fossil fuels like gasoline are burned for energy?
3. How do fossil-fuel-powered vehicles impact our planet?

**Check for Understanding #1:**

4. Describe what a greenhouse gas is in your own words.
5. How are the natural and enhanced Greenhouse Effects similar? How are they different?

Name:

Date:

Class:

**Check for Understanding #2:**

6. What forms of transportation do people mainly use and how far are their average trips?
  
  
  
  
  
  
  
7. Which vehicle type contributes the most CO<sub>2</sub> emissions?

**Check for Understanding #3:**

8. What are the current pros and cons of electric vehicles vs gas-powered vehicles?
  
  
  
  
  
  
  
9. Why are zero-emission vehicles like EVs important to make accessible for all people?

**Check for Understanding #4:**

10. Do certain locations of the country have good air quality (green, yellow), and are these areas near any major roadways?
  
  
  
  
  
  
  
  
  
  
11. Do certain locations of the country have poor air quality (orange, red, maroon), and are these areas near any major roadways?

Name:

Date:

Class:

**Discussion: Engineering Connections**

12. What are some pros and cons of gas-powered vehicles? Of electric vehicles?

13. What are some ideas and ways to transition from non-renewable (fossil fuels) to renewable (alternative energy) energy sources to power our transportation system now and in the future?

14. What impact do you think electric vehicles will have on the future sustainability of our transportation systems, air quality, and climate impacts if people have access to affordable EVs and clean energy charging?