

Name:

Date:

Class:

Environmental Impact StoryMap #1: Air Quality

Instructions: Complete the following questions as you explore the [Environmental Impact StoryMap #1 Air Quality](#)

StoryMap #1 Link: <https://storymaps.arcgis.com/stories/60255fa348e44dc4b47593f10a1c2b71>

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

1. Do gas-powered vehicles change how clean the air is?
2. Does dirty air affect the health of people and the environment equally?
3. Are there ways to engineer cleaner and healthier transportation options for all?

Check for Understanding #1:

4. What are the two sizes of PM air pollution?
5. Which size of PM is visible to the human eye?

Check for Understanding #2:

6. List three kinds of PM particles that are found in the air.

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7. Name one human-made source and one natural source of PM air pollution.

Check for Understanding #3:

8. Which Air Quality Index (AQI) colors represent healthy air? Unhealthy air?

9. If the AQI is 125, what is the level of health concern?

Check for Understanding #4:

10. When the wind speed is higher, is the Air Quality Index generally good or poor air quality?

11. When the wind speed is lower, is the Air Quality Index generally good or poor air quality?

Discussion: Engineering Connections

12. Energy and transportation are essential parts of our lives. What are some examples of sustainable energy and transportation options that you have heard about?

13. How do you think the current transportation system affects the level of particulate matter air pollution and air quality in urban communities? In rural communities?

14. What are some ideas that you have on how engineers can tackle the problem of transportation-related air pollution to improve air quality for everyone?