April 2021

Student Pages - Smog City!

Center for Urban Resilience

Name: _____ Date: _____ Class/Period:_____

Lesson 4.2: Smog City!

Directions:

Go to http://www.smogcity2.org, then click on Create your own Smog City 2 experience found at the lower left hand part of the page.

Before beginning, click on "How to use controls" which appears at the upper left hand part of the new page. Read through the directions and then you can continue.

The air particle levels and ground level ozone is low at the beginning of this simulation. Your objective is to predict what will happen when you move one of the ten controls for either weather, emissions or population. Then try moving the control. Record what happened to the levels.

Reset the simulation and try this two more times with one different control each time.

Control Moved	Prediction	Level Changes

Now try it again but move two or three controls of your choice at one time. The important part is to first record the controls you will be moving and make a prediction before you move them.

Controls Moved	Prediction	Level Changes

Conclusions:

1. What do you think are the two most important factors in causing unhealthy air pollution levels to increase in a city? Explain why, using what happened in the simulation.

2. What can cities do to lower air pollution? Use what happened in the simulation to support your response.