

Student Comprehension Worksheet

Directions: Read the online *Science News* article "[Wildfire smoke may ramp up toxic ozone production in cities](#)," which explores new research into the interactions between wildfire smoke and air pollution in cities, and answer the following questions. A version of the article, "Wildfires may boost urban ozone levels," appears in the January 15, 2022 issue of *Science News*.

- 1. Wildfire smoke contains a dizzying array of organic compounds and nitrogen oxides among other molecules. How did the scientists described in the article study the chemistry of wildfire smoke in action?**
- 2. Ozone can form as ingredients in wildfire smoke interact. How did scientists calculate the amount of ozone produced by wildfire emissions? What did the calculations show?**
- 3. Based on the scientists' findings, what can happen when wildfire smoke drifts into urban areas?**
- 4. What are the possible implications for urban air quality and human health?**
- 5. How might climate change make the situation worse?**
- 6. Choose a word from the story that you don't use all the time and write a dictionary definition for the word using only context clues from the article. Don't forget to include the word's part of speech.**