**Air Pollution Questions: Answer the following questions in your notebook**Primary Air Pollutant Questions:

**Figure 1:**

1. Carbon monoxide makes up about what percentage of air pollution in the United States?
2. Which source emits the majority of volatile organic compounds?
3. Which three primary air pollutants are emitted in a large amount from transportation?
4. Sulfur oxides, nitrogen oxides, and volatile organic compounds make up what percent of total primary air pollution?

**Figures 2 and 3:**

1. What main pollutant is produced by fuel combustion?
2. What pollutants are primarily created by the automobile industry?

**Figure 4:**

1. Which air pollutants have decreased the most over time? Use data to support your answer.

Sulfur Dioxide Questions:

**Part 1**

1. Compare the sources of sulfur dioxide emissions in the USA versus in Canada. What differences do you see? How could you explain these?
2. Compare the Sulfur Dioxide Emissions by Source Sector for Arizona State as a whole versus Maricopa County. What differences do you see? How could you explain these?
3. Where in Arizona are sulfur dioxide emissions highest?

**Part 2**

1. How have sulfur dioxide emissions changed over time in the United States? In Canada? In Arizona?

Nitrogen Oxide Questions:

**Part 1**

1. How has the USA’s nitrogen oxide emissions changed over time? (Considerations: when were they increasing/decreasing; when were they at their highest; when were they lowest)
2. How has Canada’s nitrogen oxide emissions changed over time?

**Part 2**

1. What is the main source of nitrogen oxides in both Canada and the USA?
2. How have car emissions of nitrogen oxides changed over time? What generation of cars produced the most NO pollution?
3. Which parts of Arizona produce the most nitrogen oxide? Using the graphs of “Emissions by Source Sector,” how can you explain this?

Carbon Monoxide Questions:

**Part 1**

1. What are the main sources of carbon monoxide emissions?
2. Using these graphs, how do you predict that a large city like New York City’s carbon monoxide emissions would compare to a small town in Montana? Support your prediction with data.

**Part 2**

1. How has the USA’s carbon monoxide emissions changed over time? (Considerations: when were they increasing/decreasing; when were they at their highest; when were they lowest)