**Post-Lecture Quiz**

Answer the following questions.

1. How would you explain to a stranger why air quality is important?  
   In other words, why do researchers study air quality?
2. Provide one example of a human-made or human-caused source of air pollution.  
   Also provide one example of a natural source of air pollution.
3. List three examples of primary pollutants and their sources.   
   Provide one example of a secondary pollutant and explain where it comes from.
4. List one example of a technology or strategy used to improve air quality and a recap of how it works.
5. Next to each pollutant listed, circle whether it is a gas-phase pollutant or particulate matter (PM).

**Carbon dioxide** gas-phase pollutant particulate matter

**Unburnt fuel in smoke** gas-phase pollutant particulate matter

**Nitrogen dioxide** gas-phase pollutant particulate matter

**Volatile organic compounds** gas-phase pollutant particulate matter

**Black diesel smoke** gas-phase pollutant particulate matter