Name: _____   Period: _____

Pollution Stations

Station 1: Great Smog of 1952

"The Killer Fog That Blanketed London"

1. What atmospheric conditions caused the Great Smog of London to occur?

2. Who was most affected by the Great Smog?

3. What piece of legislature (law) was passed as a result of the Great Smog of 1952?

4. What kind of heating source did homeowners convert their coal dependent homes to?

Station 2: Indoor air quality survey

Answer "yes" or "no" to each of the questions on the survey. Record your total below:

Indoor air quality in your home: _____
In general, more than 10 yes answers may indicate poor indoor air quality in your home.

Station 3: AQI (Air Quality Index)

Visit the following site: http://www.airnow.gov/ and **under the LINKS option at the end of the screen click on "Air quality index."**

A. What does AQI stand for?

B. What is the AQI?

C. What are the five major air pollutants regulated by the EPA according to the Clean Air Act:

1.
2.
3.
4.
5.

D. What do the different colors represent when monitoring the ozone?
   Green –

   Yellow –

   Orange –

   Red –

   Purple –

   Maroon –

E. Go back to the home page and **locate the Local Air Quality Conditions (at the top) and put in the zip code for Vernon Hills (60061). Record AQI for the following:**

   Vernon Hills, IL (60061) _____

   Milwaukee, WI (53022)? _____

   Chicago, IL (60605)? _____

Station 4: EPA Scorecard

Visit the following site: http://www.scorecard.org

A. What does this website do?

B. Find the **top three polluters** in Lake County? (60061)

   1.

   2.

   3.

C. Find the **top three pollutants (chemicals)** released in Lake County.

   1.

   2.

   3.

Station 5: Nations with the highest and lowest levels of air pollution

Nations with highest air pollution	Nations with lowest air pollution
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.
8.	8.
9.	9.
10.	10.

1. China isn't in the top 10 for highest average levels of air pollution. However, it ranks fifth for having the most deaths per capita due to air pollution. **Explain.**

Station 6: Industrial Revolution
Industrialization and Conflict in America: 1840–1875 by David Jaffe

1. According to the article, from which two countries did most people emigrate during this period of the Industrial Revolution?

2. According to the article, which two inventions helped the spread of industry?

3. Why were nine out of every ten adult white Americans able to read?

Station 7: Pollution detectors: Your Home

Room	Source	Pollutant
Example: garage	Car	Carbon monoxide, nitrogen dioxide