



Air Quality WebQuest
(This will count as a MAJOR grade.)

YOU MUST WRITE YOUR ANSWERS IN YOUR OWN WORDS.

1. Log in to Discovery Education. Type into the search bar for the passage titled "The Clean Air Act," and answer the following questions. Your log-in is: wcp(student ID #).

- A. According to the passage, what is air made up of?
- B. What is industrialization?
- C. How has industrialization changed our country and our air?
- D. What is the Air Pollution Control Act of 1955?
- E. How did this help?
- F. What did this act NOT do for the air?
- G. In 1970, the Clean Air Act was passed. What did this law do for the air?

2. Visit the following site: <http://www.airnow.gov/>

- A. What does AQI stand for?
- B. What does AQI do?
- C. What is the AQI forecast for the Raleigh-Durham-Chapel Hill area today?
 - i. Particulate matter
 - ii. Ozone
- D. What are the five common air pollutants regulated by the Clean Air Act? (Use the "Quicklinks" on the bottom of the page and look in the "Students" section.)
 - 1.
 - 2.
 - 3.
 - 4.
 - 5.



3. Visit the following site to give the sources for each of the pollutants that you just listed: <http://www.clean-air-kids.org.uk/airquality.html>

- 1.
- 2.
- 3.
- 4.
- 5.

4. Visit the following site: <http://www.kean.edu/~fosborne/resources/ex12j.htm>

- A. What is the definition of point source pollution?
- B. Give two examples of point source air pollution (just look at *Air*). I know it only lists one example, can you think of another?
 - 1.
 - 2.
- C. What is the definition of non-point source pollution?
- D. Give two examples of non-point source air pollution (just look at *Air*).
 - 1.
 - 2.



5. Visit the following site: <http://www.scorecard.org>

- A. What does this website do?
- B. Find the top three polluters in Wake County?
 - 1.
 - 2.
 - 3.
- C. Find the top three pollutants released in Wake County.
 - 1.
 - 2.
 - 3.

6. Visit the following site: http://daq.state.nc.us/news/brochures/o3_2001.shtml

- A. How can ozone be both good and bad?
good -

bad -

- B. What do the different colors represent when monitoring ozone in



the troposphere?

- green -
- yellow -
- orange -
- red -
- purple -

7. North Carolina has its own government agency that monitors the air quality in our state; it is called the Division of Air Quality (DAQ). Check out their site:
http://daq.state.nc.us/airaware/n&o_aq_insert_05022006.pdf

A. List three steps DAQ is taking to keep our air clean. (Look in the *What's being done?* Section)

- i.
- ii.
- iii.

C. According to this site, what is the major cause of global warming or climate change?

D. List 5 things you can do to reduce air pollution.

- i.
- ii.
- iii.
- iv.
- v.

8. Visit the following site sponsored by the World Wildlife Fund:
<http://wwf.moccu.com/game.php?lang=en>

A. Play the game and record your score:

Level 1 _____
Level 2 _____
Level 3 _____
Level 4 _____

B. What animal populations are being affected by emissions from power plants?

9. Check out some of the sites below for fun:

- A. <http://daq.state.nc.us/cgi-bin/aakids.cgi?actcd=5> (Play Air Jeopardy)
- B. <http://www.epa.gov/climatechange/kids/version2.html> (Take Global Warming Quiz)
- C. <http://www.smogcity.com/welcome.htm> (Run Smog City and Manipulate Air Conditions)
- D. <http://www.epa.gov/ozone/puzzles/scipuzzl.html> (Complete EPA Ozone Crossword Puzzle)
- E. <http://www.discoveryeducation.com> (Complete the exploration THE AIR UP THERE in your assignments.)