**Air Quality Notes**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Period\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Use the Google Classroom assignment to complete the following questions.

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| **Part 1: Air Pollution** | 1. What is the definition of air pollution? |
| 2. What is outdoor air pollution?    Examples of outdoor air pollution: |
| 3. What is indoor air pollution?  Examples of indoor air pollution: |
| **Part 2: Common Air Pollutants** | 1. What are the six common air pollutants?  a. d.  b. e.  c. f. |
| 2. What criteria does the EPA (Environmental Protection Agency) use to determine these pollutants? (use primary and secondary standards in your answer) |
| **Part 3: Ground-Level Ozone** | 1. How does ground-level ozone form? |
| 2. Compare and contrast good ozone and bad ozone using a double bubble map.  (What is “good” vs “bad” ozone?) |
| 3. What are 3 negative health effects of bad ozone?  a.  b.  c. |
| 4. What are the environmental impacts that occur due to increased ground-level ozone? |
| **Part 4: Particulate Matter** | 1. Identify 2 sources of particulate matter.  a.  b. |
| 2. Explain the two categories used in classifying particulate matter.  1. Inhalable particles -  2. Fine inhalable particles - |
| 3. Why is the size of particulate matter important to human health? |
| **Part 5: Acid Rain** | 1. What is acid rain? |
| 2. What 2 gases are the primary causes of acid rain? |
| **Part 6: Air Quality** | 1. What does AQI stand for?  2. What is it? |
|  | 3. What 2 pollutants pose the greatest threat to human health?  a. b. |
|  | 4. What are the 5 major pollutants regulated by the EPA according to the Clean Air Act?  a. d.  b. e.  c. |
|  | 5. What do each of the different colors represent when monitoring the ozone? |
|  | 6. What is the forecasted AQI for today? \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Part 7: Scorecard** | 1. What are the top 2 polluters in Wake County?  a.  b. |
|  | 2. What are the top 2 pollutants in Wake County?  a.  b. |
| **Part 8: Clean Air Act** | 1. Describe the Clean Air Act? |