**Atmospheric Pollution Chart** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_

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| **NAME** | **CHEMICAL SYMBOL(S)** | **CAUSES** | **CONCERNS** | **SOLUTIONS** |
| Ozone(Ambient Air) |  |  |  |  |
| Nitrogen Oxides |  |  |  |  |
| Sulfur Dioxides |  |  |  |  |
| Lead |  |  |  |  |
| Carbon Monoxide |  |  |  |  |
| Formaldehyde |  |  |  |  |

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| **NAME** | **CHEMICAL SYMBOL(S)** | **CAUSES** | **CONCERNS** | **SOLUTIONS** |
| VOCs (Volatile Organic Compounds) |  |  |  |  |
| Carbon Dioxide |  |  |  |  |
| Radon |  |  |  |  |
| PM (Particulate Matter) |  |  |  |  |
| CFCs(Chlorofluoro-carbons) |  |  |  |  |
| Mercury |  |  |  |  |

**Atmospheric Pollution Chart KEY** Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_

* Use your cell phone, laptops, notes, and/or the text book to fill in the chart.

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| **NAME** | **CHEMICAL SYMBOL/S** | **CAUSES** | **CONCERNS** | **SOLUTIONS** |
| Ozone(Ambient Air) | **O3** | Vehicle exhaustForms when other air pollutants react with sunlight.Forest fires |  Lung damage-          Eye irritation-          Respiratory tract problems-          Damages vegetation-          Causes smog | -          Reduce car emissions-          Add pollutant filter to smoke stacks. |
| Nitrogen Oxides | **NOx** | VehiclesPower plants burning fossil fuelsCoal burning stoves |  Lung damage-          Acid rain forms-          Deteriorate buildings and statues-          Damages forests-          Forms ozone | -      Reduce the use of fossil burning power plants-      Replace old coal burning stoves-       Reduce car emissions |
| Sulfur Dioxides | **SOx** | Coal burning power plants and industriesCoal burning stovesRefineriesVolcanoes |  Eye irritation-          Lung damage-          Kills aquatic life-          Forms acid rain-          Acid rain that forms damages buildings and forests. | -     Reduce reliance on coal-     Recycle metals so less needs to be refined. |
| Lead | **Pb** | Leaded fuelMetal refineriesPower plants burning fossil fuels | Brain and kidney damage-      Contaminated crops and livestock | -          Use only unleaded fuel-          Reduce reliance on fossil fuel burning power plants. |
| Carbon Monoxide | **CO** | Motor vehiclesPower plants burning fossil fuels.Kerosene or wood burning stoves. |  Headaches-      Reduced mental alertness-      Death-      Heart damage | -          Reduce car emissions-          Utilize nuclear energy.-          Stop or slow the use of wood burning stoves or kerosene. |
| Formaldehyde | **H2CO or** **CH2O** | Found in all kinds of products including wood floors, glues, permanent press materials  | Eye irritant Cancer | Remove from homeVentilate areas with it |

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| **NAME** | **CHEMICAL SYMBOL/S** | **CAUSES** | **CONCERNS** | **SOLUTIONS** |
| VOCs (Volatile Organic Compounds) | **VOC** | PaintPerfumesNail polishCFCs (in refridgerants and cleaning supplies)Car exhaust | Respiratory problemsMay lead to cancer.Deplete the ozone layer | Reduce exposure to items that release VOC’sReduce the use products containing CFCs |
| Carbon Dioxide | **CO2** | VolcanoesMotor vehiclesPower plants burning fossil fuelsForest fires | Produces smog when reacts with light.-     Increases the greenhouse effect | -          Reduce car emissions-          Utilize nuclear energy-          Prevent unnatural forest fires |
| Radon | **Rn** | Radioactive decay in soil and rocks under homes and other buildings. Basements | Lung cancer – 2nd leading cause | -          Seal up basements, have proper ventilation  |
| PM (Particulate Matter) | **PMx** | Diesel enginesPower plantsIndustriesWindblown dustWood stoves | Lung damage-     Eye irritation-     Damage to crops-     Reduces visibility-     Discolors buildings and statues | -          Reduce the use of diesel engines-          Filter smokestacks-          Reduce use of wood stoves |
| CFCs(Chlorofluoro-carbons) | **CFC** | Motor vehiclesRefrigerantsCleaning products | Deplete ozone layer | -      Reduce the use of items that contain CFCs |
| Mercury | **Hg** | Burning fossil fuels |    Contaminate fish | -          Reduce the use of fossil fuels. |