

Name:

Date:

Class:

Lesson 7: Got Dirty Air? – Sources of Air Pollution (Major Man-Made Air Pollutants)

POLLUTANT	DESCRIPTION	SOURCES	SIGNS / EFFECTS
Carbon monoxide (CO)	<ul style="list-style-type: none"> Colorless, odorless gas 	<ul style="list-style-type: none"> Vehicles burning gasoline Indoor sources, including: kerosene, wood burning, natural gas, coal, or wood-burning stoves and heaters 	<ul style="list-style-type: none"> Headaches, reduced mental alertness, death Heart damage
Lead (Pb)	<ul style="list-style-type: none"> Metallic element 	<ul style="list-style-type: none"> Vehicles burning leaded gasoline Metal refineries 	<ul style="list-style-type: none"> Brain and kidney damage Contaminated crops and livestock
Nitrogen oxides (NO _x)	<ul style="list-style-type: none"> Gaseous compounds made up of nitrogen and oxygen 	<ul style="list-style-type: none"> Vehicles Power plants burning fossil fuels Coal-burning stoves 	<ul style="list-style-type: none"> Lung damage React in atmosphere to form acid rain Deteriorate buildings and statues Damage forests Form ozone & other pollutants (smog)
Ozone (O ₃)	<ul style="list-style-type: none"> Gaseous pollutant 	<ul style="list-style-type: none"> Vehicle exhaust and certain other fumes Formed from other air pollutants in the presence of sunlight 	<ul style="list-style-type: none"> Lung damage Eye irritation Respiratory tract problems Damages vegetation Smog
Particulate matter	<ul style="list-style-type: none"> Very small particles of soot, dust, or other matter, including tiny droplets of liquids 	<ul style="list-style-type: none"> Diesel engines Power plants Industries Windblown dust Wood stoves 	<ul style="list-style-type: none"> Lung damage eye irritation Damages crops Reduces visibility Discolors buildings and statues
Sulphur dioxide (SO ₂)	<ul style="list-style-type: none"> Gaseous compound made up of sulphur and oxygen 	<ul style="list-style-type: none"> Coal-burning power plants and industries Coal-burning stoves Refineries 	<ul style="list-style-type: none"> Eye irritation Lung damage Kills aquatic life Reacts in atmosphere to form acid rain Damages forests Deteriorates buildings and statues

(Source: US Environmental Protection Agency, <https://www.epa.gov/environmental-topics/air-topics>)