

Topic/Objectives: 15-2 Pollution of the Atmosphere; (1) Explain how both natural processes and human activities can cause air pollution, (2) Describe how air pollutants affect human health, (3) Explain what causes smog and how temperature inversions affect it and other forms of air pollution, (4) Explain how acid deposition occurs and describe its effects.		Name:
		Date:
		Period:
Essential Question: What are the sources of air pollution?		
Questions:	Notes:	
	<p>_____ can be caused by natural processes and human activities.</p> <ul style="list-style-type: none">◦ Natural Processes: Winds sweeping over dry land, volcanic eruptions, forest fires, etc.◦ Human Sources: factory smog, car smog, etc. <p>_____ air pollutants are pollutants released directly into the troposphere (e.g. soot and carbon monoxide).</p> <p>_____ air pollutants are made when primary pollutants react with chemicals already in the air (e.g. ozone and sulfuric acid)</p>	
	<p>Air pollutants can damage the _____ system, interfere in oxygen uptake, and cause cancer.</p> <ul style="list-style-type: none">◦ Asthma, bronchitis and emphysema have all been linked to air pollution.◦ Carbon monoxide blocks _____ receptors that oxygen binds to, interfering with oxygen uptake.◦ Benzene, found in gas and car exhaust, is a known _____.	
<p>Temperature inversions may trap smog in the stratosphere, preventing pollution from dispersing.</p> <ul style="list-style-type: none">◦ _____ smog is formed from soot, sulfur and water and produced in older industrial technologies.◦ _____ smog is formed when sunlight reacts with nitrogen oxides and hydrocarbons.◦ _____ occurs when a layer of cold air is located below a layer of warmer air.		

[illegible]