Lesson Outline

LESSON 4

Air Quality

A. S	ou	rces of Air Pollution
	1.	is the contamination of air by harmful substances
		including smoke and other gases.
		a. Air pollution harms animals and humans by weakening the
		and causing disease.
		b. Air pollution plants, including crops, and can reduce
		food production.
	2.	is pollution that comes from an identifiable source.
		A natural source of this pollution is a(n)
	3.	is pollution that comes from a widespread area.
		A natural source of this pollution is
B. (Cau	ses and Effects of Air Pollution
	1.	forms when sulfur dioxide and nitrogen oxides
		combine with moisture in the atmosphere and create precipitation that has a pH
		lower than that of normal rain water.
		a. Acid precipitation falling in lakes and rivers can harm
		living in the water.
		b. Acid precipitation can buildings that are made of stone.
		c. One of the most common sources of pollutants that cause acid rain
		is
	2.	is air pollution that forms from the interaction between
		chemicals in the air and sunlight.
		a. Smog forms when from gasoline mixes with sunlight.
		b. is the main gas in smog; at ground level, this gas can
		harm the tissues of plants and animals.
C. P	art	iculate Pollution
	1.	is a mixture of dust, acids, and other chemicals that
	_	can be harmful to human health.
	2.	The particles are usually the most harmful because they

can be inhaled and can cause asthma and bronchitis and lead to heart attacks.

Lesson Outline continued

- **D.** Movement of Air Pollution
 - 1. _____ can carry air pollution from one place to another.
 - **2.** A(n) _____ can trap pollution in a valley for a number of days.
- **E.** Maintaining Healthful Air Quality
 - **1.** The ______ of 1970 allows the U.S. government to set limits on levels of harmful pollutants, including carbon monoxide, lead, nitrogen oxides, ozone, particulate matter, and sulfur dioxide.
 - **2.** Officials ______ air pollution levels in all major U.S. cities. When pollution levels become high, they issue ______ and recommend that people limit certain activities, such as exercising outside and driving.
- **F.** Air Quality Trends
 - 1. Because of the Clean Air Act, levels of most air pollutants have _____ greatly in the past four decades.
 - 2. The level of ground-level ozone has increased mainly because of the increased number of ______.
 - **3.** _____ air pollution can be 50 times stronger than _____ air pollution.
 - **a.** Sources of ______ include tobacco smoke, cleaning products, and some carpets and upholstery.
 - **b.** The gas ______, which escapes from some soil, enters buildings through cracks in foundations.