Name Class	Date
Skills Worksheet Study Guide - Ch12	Date
In the space provided, write the letter of the the description. 1. ground-level ozone 2. scrubber 3. radon gas 4. nitrogen oxides 5. decreased pH 6. possible long-term effect of air pollution 7. necessary to control acid precipitation 8. atmospheric condition trapping pollution 9. possible short-term effect of air pollution 10. possible long-term effect of noise pollution	a. primary pollutant b. secondary pollutant c. indoor air pollution d. pollution control e. acid precipitation f. temperature inversion g. lung cancer h. deafness i. international agreement j. nausea
MULTIPLE CHOICE In the space provided, write the letter of the each statement or best answers each questi	-
11. Which of the following is an example of a primary pollutant? a. ground-level ozone b. soot from smoke c. radon d. All of the above	would be a potential cause of sick-building syndrome? a. acid precipitation b. smog c. fungi d. all of the above

Name	Class		Date
Study Guide continued			
13. Catalytic converters scrubbers, and	,		a. smog. b. air pollution.
electrostatic precipi	ators		c. light pollution.
are examples of	attorb		d. noise pollution.
a. technologies used	i to	17.	Oil refineries and gasoline
treat sick-buildin			stations are both sources
syndrome.	D		of
b. technologies used	l to		a. particulate matter.
counteract the eff			b. volatile organic
acid precipitation			compounds.
aquatic ecosyster			c. smog.
c. technologies used			d. All of the above
capture radon gas			
d. technologies used		18.	Uranium-bearing rocks
control pollution			underneath a house can be
emissions.			a source of
			a. ozone.
14. During a temperatur	·e		b. asbestos.
inversion,			c. radon.
a. sulfur oxides and			d. formaldehyde.
nitrogen oxides	. •	19	An increase in the pH of a
combine with wa	ter in	17.	lake would most likely
the atmosphere.			indicate
b. an influx of acidi			a. the lake suffers from
water causes a ra	-		acid shock.
change in the pH	01		b. calcium carbonate has
water.	laval		been released into the
c. levels of ground- ozone decrease.	ievei		lake.
d. pollutants are tra	nned		c. the area in which the
near Earth's surfa			lake is located suffers
near Later 5 sure	100.		from acid precipitation.
15. What is <i>not</i> a consec	quence		d. higher than average
of acid precipitation	2		sulfur oxide levels in
a. an increase in the	pH of		the atmosphere.
soil and water		20	Acid precipitation is
b. the death of aqua			formed when
plants and anima			a. sulfur oxides or
c. the destruction of			nitrogen oxides
calcium carbonat			combine with water.
building material			b. sulfur oxides combine
d. a change in the b	arance		with nitrogen oxides.
of soil chemistry			c. ozone combines with
16. High blood pressure	and		automobile exhaust.
stress are both huma			d. nitric or sulfuric acids
health effects linked	l to		combine with ozone.

CHAPTER 12 Review

Reviewing Key Terms

Use each of the following terms in a sentence.

- 1. air pollution
- 2. smog
- 3. temperature inversion
- 4. sick-building syndrome
- 5. pH

For each pair of terms, explain how the meanings of the terms differ.

- 6. primary pollutant and secondary pollutant
- 7. asbestos and radon
- 8. pH and acid precipitation
- 9. acidification and acid shock
- Concept Map Use the following terms to create
 a concept map are pollution, primary pollutant,
 volatile organic compound, scrubber, secondary
 pollutant, smog and semperature inversion.

Reviewing Main Ideas

- 11. Which of the following air pollutants is not a primary pollutant?
 - a. particulate matter
 - b. ozone
 - C. sulfur dioxide
 - d. volatile organic compounds
- 12. A device used to clean exhaust gases before they exit an automobile's tailpipe is called a(n)
 - a. electrostatic precipitator.
 - b. catalytic converter.
 - C. scrubber.
 - d. None of the above
- The majority of sulfur dioxide produced by industry comes from
 - a. oil refineries.
 - b. dry cleaners.
 - C. chemical plants.
 - d. coal-burning power plants.

- 14. Which of the following substances is not involved in the chemical reaction that produces smog?
 - a. sunlizht
 - b. particulate matter
 - C. automotive exhaust
 - d. ozone
- 15. Which of the following respirator; diseases is considered a long-term effect of air pollution on human health?
 - a. emphysema
 - b. bronchins
 - C. pneumonia
 - d. all of the above
- 16. Which of the following substances is a colorless, tasteless, and odorless radioactive gas?
 - a. asbestos
 - b. carbon monoxide
 - C. radon
 - d. ozone
- 17. A sound measuring 40 dB has how many times the intensity of a sound that measures 10 dB?
 - a. 4 times
 - b. 30 times
 - C. 400 times
 - d. 1,000 times
- 18. Which of the following choices is not an effective solution to the energy waste related to inefficient lighting?
 - a. using low-pressure sodium lighting sources
 - pointing lights on billboards and street signs upward
 - C. placing light sources on time controls
 - d. shielding light to direct it downward
- 19. Which of the following numbers on the pH scale would indicate that a substance is acidic:
 - a. 5.0
 - b. 7.0
 - C. 9.0
 - d. none of the above
- 20. Normal precipitation has a pH of
 - a. 7.0.
 - b. 5.6.
 - C. 5.1.
 - d. 4.5.