Name	Class	Date
Assessment		
Quiz		

# **Section: What Causes Air Pollution? MATCHING**

In the space provided, write the letter of the term or phrase that best matches the description.

\_ 1. have no emissions from tailpipes **a.** primary pollutant or gasoline **b.** ZEVs c. smog **2.** results from chemical reactions involving sunlight, air, exhaust, and ozone **d.** temperature inversion e. Clean Air Act **3.** scrubbers and electrostatic precipitators help industries meet the requirements of **f.** sea-coal this **4.** put directly into the air by human activity **5.** a source of air pollution before modern times **6.** atmospheric condition that traps pollution near the ground

#### **MULTIPLE CHOICE**

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- \_\_\_\_\_ **7.** Which is a secondary air pollutant? **a.** ozone **b.** carbon monoxide
  - c. particulate matterd. nitrogen oxides
  - **8.** Volatile organic compounds**a.** are tiny particles of liquid or solid matter.**b.** are produced by chemical
    - b. are produced by chemical interactions between sulfur and oxygen.c. are an odorless, colorless
    - poisonous gas. **d.** are organic chemicals

that form toxic fumes.

- **9.** Which device helps clean car exhaust?
  - **a.** electrostatic precipitator
  - **b.** scrubber
  - **c.** catalytic converter
  - $\textbf{d.} \ \mathrm{ZEV}$
  - **10.** Which pair below are the two main sources of air pollution in urban areas?
    - a. vehicles, volcanoes
    - **b.** vehicles, industries
    - c. industries, agriculture

Air

**d.** none of the above

### Quiz

AT CAUSES AIR	
<b>4.</b> a	
<b>5.</b> f	
<b>6.</b> d	
<b>7.</b> a	
<b>8.</b> d	
<b>9.</b> c	
<b>10.</b> b	
	<ul> <li>4. a</li> <li>5. f</li> <li>6. d</li> <li>7. a</li> <li>8. d</li> <li>9. c</li> </ul>

## SECTION: AIR, NOISE, AND LIGHT POLLUTION

Matching	<b>Multiple Choice</b>
<b>1.</b> d	<b>7.</b> d
<b>2.</b> c	<b>8.</b> b
<b>3.</b> e	<b>9.</b> a
<b>4.</b> b	<b>10.</b> a
<b>5.</b> a	
<b>6.</b> f	

#### **SECTION: ACID PRECIPITATION**

SECTION. ACID	PRECIPITATION
Matching	<b>Multiple Choice</b>
<b>1.</b> d	<b>7.</b> b
<b>2.</b> c	<b>8.</b> a
<b>3.</b> e	<b>9.</b> d
<b>4.</b> a	<b>10.</b> c
<b>5.</b> f	
6 h	

## **Chapter Test General**

chapter lest deficial		
MATCHING	MULTIPLE CHOICE	
<b>1.</b> c	<b>11.</b> b	
<b>2.</b> e	<b>12.</b> a	
<b>3.</b> f	<b>13.</b> d	
<b>4.</b> i	<b>14.</b> c	
<b>5.</b> h	<b>15.</b> a	
<b>6.</b> j	<b>16.</b> a	
<b>7.</b> a	<b>17.</b> b	
<b>8.</b> d	<b>18.</b> d	
<b>9.</b> b	<b>19.</b> c	
<b>10.</b> g	<b>20.</b> a	

## **Chapter Test Advanced**

MATCHING	<b>MULTIPLE CHOICE</b>
<b>1.</b> e	<b>11.</b> a
<b>2.</b> b	<b>12.</b> d
<b>3.</b> g	<b>13.</b> c
<b>4.</b> i	<b>14.</b> c
<b>5.</b> f	<b>15.</b> a
<b>6.</b> j	<b>16.</b> b
<b>7.</b> d	<b>17.</b> d
<b>8.</b> a	<b>18.</b> b
<b>9.</b> h	<b>19.</b> c
<b>10.</b> c	<b>20.</b> d

#### **SHORT ANSWER**

- 21. The EPA has required the reduction of lead in gasoline, which has lowered lead pollution by 50 percent. Installing catalytic converters has reduced the amount of pollutants from tailpipe exhaust. By the year 2016, California Zero-Emission Vehicle Program requires 16 percent of vehicles sold in California to give off no emissions. Auto manufacturers are building prototype cars that produce fewer emissions (such as hybrids) or no emissions.
- 22. Students may describe three of the following: Chronic bronchitis—an inflammation of the bronchial tubes leading to persistent coughing and difficulty in breathing. Asthma—bronchial passages constrict and fill with mucus. Emphysema—air sacs lose their elasticity, causing difficulty in exhaling. Lung cancer—malignant disease that is linked to air pollution, although smoking cigarettes is the more common cause. Asbestosis—asbestos fibers cut and scar the lungs, causing difficulty in breathing.

#### **PROBLEM SOLVING**

**23.** 1,000 times more acidic