# Lesson 15.1: Air, Water, and Noise Pollution

## Vocabulary Review Worksheet

1. environment
2. climate
3. built
4. smog
5. air quality index (AQI)
6. noise pollution
7. chemicals

## Note-Taking Guide

**The Environment**

1. Environment: The surroundings and conditions in which you live

Natural environment: All living species, climate, weather, and natural resources

Built environment: All the human-made spaces where you work, live, and play

**Air Pollution and Your Health**

2. Asthma and allergy attacks; sleepiness; headaches; irritation of the eyes, nose, throat, and skin

**Outdoor Air Quality**

3.Any two of the following: wildfires; volcanic eruptions; dust storms; pollens from trees and flowers

4. Driving motor vehicles; burning coal and oil for fuel

**Indoor Air Quality**

5. Any four of the following: ventilation (access to outdoor air); humidity; mold; chemicals; tobacco smoke; dust; allergens, such as pollen and pet dander

**Water Pollution and Your Health**

6.Any two of the following: using chemicals on lawns to kill weeds; washing cars in the driveway; the chemicals used in the manufacturing of products that enter the water cycle; improper disposal of products containing chemicals (paint, batteries, medicines); microorganisms from animal and human waste and garbage; natural disasters

**Noise Pollution and Your Health**

7. When sound is unwanted, excessive, or bothersome

8. Can damage hearing and cause high blood pressure, difficulty sleeping, and poorer performance at school and work. Individuals exposed to constant noise can also become irritable and suffer from depression or anxiety.

9. Earbuds and headphones worn with personal devices

# Lesson 15.2: Chemicals, the Environment, and Your Health

## Vocabulary Review Worksheet

1. chemical
2. synthetic
3. toxic
4. household
5. hazardous materials

## Note-Taking Guide

**What Are Chemicals?**

1.

Chemical

* Definition: A substance that cannot be broken down without changing into something else
* Examples: Gold found in rocks and the vitamin C found in citrus fruits

Synthetic chemical

* + Definition: A human-made chemical
  + Examples: Aspirin and aspartame

Toxic chemical

* + Definition: Any chemical that can cause death, make you pass out for a period of time, or cause permanent harm to humans or animals
  + Examples: Solvents, paints, batteries, pool cleaners, antifreeze, and bug and weed killers

**Why Chemicals Matter**

2.

creating; packaging

use; released

inhaled; absorbed

**Chemicals in Personal Care Products**

3. List four of the following of products:

* Shampoo
* Toothpaste
* Deodorant
* Sunscreen
* Makeup

List four of the following toxic ingredients:

* Parabens
* Fragrance
* Formaldehyde
* Sodium Lauryl Sulfate
* Polyethylene Glycol
* Triclosan
* Ethanolamines
* Oxybenzone

**Chemicals in Household Items**

4.

1. lead

2. BPA

3. mercury

**Getting Help When Needed**

5. doctor; school nurse; trusted adult; Poison Control Center

# Lesson 15.3: Conservation and Living Green

## Vocabulary Review Worksheet

1. extended
2. renewable
3. recycle
4. biodegradable
5. reuse
6. composting

## Note-Taking Guide

**Conserving Natural Resources**

1. Conservation means that we conserve natural resources and take steps to prevent the exploitation, destruction or neglect of natural resources.

2. biodiversity

3.

Reduce

* Helpful: Reduces the amount of trash and pollution we create
* Example: Focusing on energy sources that create less pollution

Reuse

* Helpful: Reducing the need for more items to be made and sold
* Example: Reusing plastic bags and water bottles or giving something to someone else to be reused

Recycle

Helpful: Reducing the amount of trash that goes into landfills

Example: Recycling plastics, paper products, and glass

Treat

* Helpful: Protects people and the environment from the damage substances can cause
* Example: Treating contaminated water so that it is safe to use

Dispose

* Helpful: Proper disposal so that toxic and dangerous items cannot pollute the water and soil
* Example: Disposing of batteries in a designated space

**Tips for Being a Green Student**

4.Students should provide four tips from the list of options provided in the textbook.

**Tips for Being Green at Home**

5. Students should provide four tips from the list of options provided in the textbook.

# Test Your Knowledge

1. b. smog

2. d. all of the above

3. d. all of the above

4. a. synthetic

5. b. a toxic chemical

6. c. renewable energy

7. a. lead and mercury

8. a. living green

9. b. conservation

10. a. biodiversity