



## Grade 7 Sample Lesson Plan: Unit 2– Pollution Solution

### **Description**

Please see attached handout for a lesson submitted by a Virginia teacher


### **Handout**


The next page includes a handout for the lesson.

# Pollution Solutions

7.1.w Describe human activities that contribute to air, water, soil, and noise pollution.

7.3.t Identify ways to maintain a safe and healthy environment at school and at home.

Link	
 <p>How have human activities contributed to air, water, soil, and noise pollution?</p> <p>Identify solutions to prevent air, water, soil, and noise pollution in your community?</p>	<p>What do you know about pollution? List 5 <a href="#">adjectives</a> (merriam-webster.com) that come to mind when you hear the word pollution?</p>
	1. <input type="text"/>
	2. <input type="text"/>
	3. <input type="text"/>
	4. <input type="text"/>
	5. <input type="text"/>
<p>Pollution may be defined as the action or process of making land, water, and air, dirty and not safe or suitable for use. (Meriam -Webster <a href="http://www.learnersdictionary.com/definition/pollution">http://www.learnersdictionary.com/definition/pollution</a> ) The quality of the land for the food we grow, water we drink, and air with breathe is essential to our health and wellbeing. Each of us has a role in preventing pollut ion. In this lesson, you will learn more about pollution, what it is, the impacts, and ways to advocate for prevention of pollution.</p>	

Explore	
 <p>Source: U.S. Department of Commerce NOAA, A Brief History of Pollution <a href="https://oceanservice.noaa.gov/education/kits/pollution/02history.html">https://oceanservice.noaa.gov/education/kits/pollution/02history.html</a></p>	<p>Pollution is not a new problem. During the middle ages, increased populations led to unsanitary conditions caused by human and animal waste and garbage. These conditions led to more bacteria and disease and water contamination, causing epidemics across Europe. In the United States in the late 1800s, industrialized cities created a new pollution issue, industrial chemicals and waste from industries and factories. In 1936, the Cuyahoga River in Cleveland, Ohio became so polluted that a spark from a blow torch ignited floating debris and oil, setting the river on fire. This event and others led to the Air Pollution Control Act of 1955 and the Federal Water Pollution Control Act of 1972.</p> <p>Today, the United States has federal, state, and local agencies that oversee policies and laws related to protecting the environment, but pollution is still an issue. In addition to water and air pollution, there are concerns about land/soil pollution and noise pollution.</p> <p>Choose two types of pollution that you would like to learn more about. On the links for each, access the What is ..., Effects of ....., and</p>

Prevention/Solutions tabs on the left side of the site to complete note taking. As time allows, you may access the other areas of information provided to learn more about your selected categories of pollution.

Air Pollution - [http:// eschooltoday.com/pollution/air -pollution/what -is-air-pollution.html](http://eschooltoday.com/pollution/air-pollution/what-is-air-pollution.html) (eSchoolToday)

Water Pollution - [http://eschooltoday.com/pollution/water -pollution/what -is-water-pollution.html](http://eschooltoday.com/pollution/water-pollution/what-is-water-pollution.html) (eSchoolToday)

Land/Soil Pollution - [http://eschooltoday.com/pollution/land -pollution/what -is-soil-contamination.html](http://eschooltoday.com/pollution/land-pollution/what-is-soil-contamination.html) (eSchoolToday)

Noise Pollution - [http://eschooltoday.com/pollution/noise -pollution/what -is-noise-pollution.html](http://eschooltoday.com/pollution/noise-pollution/what-is-noise-pollution.html) (eSchoolToday)

## Explain

Explain which pollution types you researched, the effects, and strategies for prevention.

Pollution Type 1:

What is the pollution type:

What are the effects of the pollution type:

What are the strategies for preventing/solving the pollution type?

Pollution Type 2:

What is the pollution type:

What are the effects of the pollution type:

What are the strategies for preventing/solving the pollution type?





## Apply

### Advocacy Activity:

Select one of the types of pollution that you learned more about and write a letter to one of the organizations below that you think are most appropriate to advocate for a pollution solution. In the letter, describe the pollution, its impact on the health of the community, and share an idea that you have to prevent or stop the pollution.

EPA - The mission of the United States Environmental Protection Agency (EPA) is to protect human health and the environment. The agency is responsible for enforcing federal laws protecting human health and the environment, ensuring that environmental protection is considered in federal policies, and protects all parts of society to include individuals, communities, businesses, and state and local governments. (EPA.gov <https://www.epa.gov/aboutepa/our-mission-and-what-we-do>)

Virginia Department of Environmental Quality (DEQ) - DEQ's mission is to protect and improve the environment for the well-being of all Virginians. DEQ administers state and federal laws and regulations for air quality, water quality, water supply and land protection. In addition, other programs cover a variety of environmental activities, such as improving the ability of businesses and local governments to protect the environment, and offering technical and financial assistance for air and water quality improvements. (<http://www.deq.virginia.gov/>)

Fairfax County Wastewater Management Program - Wastewater Management Programs are committed to recycling efforts, employee health and safety programs, air pollution reduction, water conservation and protection and nutrient reduction efforts. ([http://www.fairfaxcounty.gov/dpwes/wastewater/environmental\\_management.htm](http://www.fairfaxcounty.gov/dpwes/wastewater/environmental_management.htm))

School principal – responsible for the health and wellbeing of all students in their building

Letter to one of the organizations:

Dear

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## Reflect

Just as the EPA is a leader to fight pollution for the United States, you can be a leader in your school and community. Identify 4 strategies (2 for School and 2 for Home) to maintain a safe and healthy environment at your school and in your home.

1. School	
2. School	
1. Home	
2. Home	

Protecting our environment is a tough task that requires all of our attention. The Earth is our home and you can make a difference in protecting it. Be the leader that your school and home environment needs!