

Name:	Date:

# **Student Exploration: Water Pollution**

	<b>cabulary:</b> bacterial pollution, nutrient pollution, sediment pollutior lution	n, toxic pollution, water	
Pri	or Knowledge Questions (Do these BEFORE using the Gizmo.)		
1.	Water pollution is the addition of harmful substances to water. Sare found at home. What household chemicals might be harmful	if not disposed of properly?	
2.	What are some other causes of water pollution?		
Th kin <b>po</b> the	<b>Emo Warm-up</b> Be Water Pollution Gizmo will teach you about some of the main ds of water pollution. On the TYPE tab, under <b>Types of</b> Blution, check that <b>Toxic</b> is selected. Read the paragraphs on a right and bottom of the Gizmo.	Types of Pollution  Toxic Sediment	
1.	What is toxic pollution?	Nutrient  Bacterial	
2.	What are some examples of toxic pollutants listed in the Gizmo?		
3. Can you think of other examples of toxic substances, not listed in the Gizm		n the Gizmo?	



# **Activity A:**

Types of water pollution

## Get the Gizmo ready:

 Check that the TYPE tab and Toxic pollution are selected.



### Question: What are the main types of water pollution?

 Read and learn: Besides toxic pollution, the other types of pollution are sediment pollution, nutrient pollution, and bacterial pollution. You have already described toxic pollution on the previous page. Read about the other types, and describe each in your own words.

Sediment pollution

	Counter political
Description:	
Causes:	
Consequences:	
	Nutrient pollution
Description:	
Causes:	
Consequences:	
	Bacterial pollution
Description:	
Causes:	
Consequences:	



Activity B:	Get the Gizmo ready:	
Real-world examples	<ul> <li>Select the EXAMPLE tab.</li> <li>Check that example 1/12 is selected. (If not, use the arrow buttons to get to example 1/12.)</li> </ul>	

# Question: What are the real-world causes of water pollution?

1. <u>Practice</u>: For each **Real-world example** presented in the Gizmo, guess which type or types of pollution will result by checking the boxes. When you are ready, click **Check answer** to see if you were right. Read the explanation, and then use your own words to fill in the table.

Example	Pollution type(s)	Explanation
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

(Activity B continued on next page)



#### **Activity B (continued from previous page)**

2. Practice: Classify each of the following examples as toxic, sediment, nutrient, and/or bacterial pollution. Explain your classifications. A. Logging removes trees from a hill, leaving a barren landscape. Classification: Explanation: B. A man washes clothes in a stream using a detergent that contains phosphorus. Classification: Explanation: \_\_\_\_\_ C. At an old gas station, gasoline leaks from an underground storage tank. Classification: D. At a research lab, a scientist carelessly pours cultures of living microbes down the drain. Classification: Explanation: \_\_\_\_\_\_ 3. Think and discuss: Many sources of water pollution are found within the home. What actions can you take to reduce water pollution? \_\_\_\_\_

