

# Water Chemistry Activity and Testing

Today's Date:	List the members of your team:
Date water sample was collected:	
Where the water sample was collected:	
Weather during past two days:	
Which chemical or water property are you testing?	
TEST RESULT (include units):	

## 1. PICK-the-POLLUTANT-ACTIVITY

- A. Pick a reader to read the **information card** about the property you are testing. As a team, **select pictures** that show human or natural activities that can change to this chemical or property in a water body.
- Below **list possible the sources of pollution** that would change this chemical attribute, using the information from the cards, pictures, and the presentation.
- B. Describe the land uses and land covering around the stream where the water sample was collected. (Here's an example answer: more than half the area is urban and covered with streets and houses; about a fourth is covered with trees and parks, and about a fourth are industrial areas.)
- C. Look at your selected pictures, and **pick pollution sources that are most likely to affect your chemical property in the sampled stream**. Keep the pictures separate to share with the class.
- List the possible sources of this type of pollution in the sampled stream.

- D. Based on your previous answers, do you predict that the levels of this chemical property in your stream will be safe for aquatic life or detrimental to it? Please explain your answer.

## 2. WATER CHEMISTRY TEST

**Safety First:** Pick someone to be a reader, someone to handle the test tube, someone to pour the chemicals, and someone to take notes. Those handling chemicals must use safety goggles and gloves. Everyone helps put the supplies away when done.

Before starting the test, read the directions out loud, and find the correct supplies as you do so. Once you are clear about what needs to be done, do the test.

### QUESTIONS to complete after finishing the test.

- E. What was your test result? \_\_\_\_\_
- F. Look at your pollutant graph. Mark the graph to show your results. You will share the graph with the class.
- G. Do you think this pollutant is presently harming the stream ecosystem? Why or why not? Be prepared to share this information with the class.