



WATERSHED WONDERS, PART 2

QUESTIONS TO PONDER

Directions: Before you watch Watershed Wonders, Part 2, a Lewis Ginter Botanical Garden virtual field trip, ask yourself the following questions. It's okay if you don't know the answers. You can guess. You can ask a family member or a friend. You can even research the questions online if you wish. Jot down your best guesses, and be ready to discuss your answers.

- 1. What is pollution?**

- 2. Are there types of pollution we can't see? Give two examples.**

- 3. Is it safe to drink or swim in water just because it is clear?**

- 4. How can we tell if a water body is clean and healthy?**

- 5. Do plants help clean the water?**

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WATERSHED WONDERS

CHALLENGE ACTIVITY & VOCABULARY

As you watch the video, record the temperature and turbidity data as we go through the water tests. Also, listen and look for these vocabulary words. Try to jot down the meanings as you hear them explained in the video.

Temperature	_____ ° F	_____ ° C
Turbidity	_____ cm	

Wetland

Erosion

Aquifer

Habitat

Adaptation

WETLAND CASE STUDY

CHALLENGE ACTIVITY

Watch the video and apply what you learned about water testing and pollution to the following case studies.

- **Scientists collect water samples from a water body. They notice high algae levels. The water body is located by a large farm. What type of pollutant could be causing this and where could it be coming from?**
- **The same scientists do a turbidity test and observe very murky, muddy water with very high turbidity. They also notice that there are no plants growing on the steep hill at the edge of the water. What process could be causing the high turbidity?**
- **Based on the information scientists gathered, would you consider the water body they studied to be healthy or unhealthy? What would you do to improve the health of the water?**

WATERSHED WONDERS

REFLECT AND PLAN

- 1. Make a plan to help clean up the water. The plan can be an invention, a flier, a poster, a song or a letter to your local congressperson.**
- 2. Invent an animal or plant that would like to live in a wetland. What are the adaptations that make your organism unique? Draw and describe the organism in the space below.**