

Water, Water Everywhere

Water Purity

Lesson Objective

1. Identify the source of your drinkable water.
2. What contaminants may be in the water?
3. What are possible ways to clean the water?

The local watering hole



Yellow River



The potty



In the first thinking box which water source do you think is most drinkable. What do you want to know about the water sources before you drink it?



Directions for building a Model

1. Create a testable question.
2. Design a filtration system using at least four filtering materials from the list. Explain the procedure for using the filtration system.
3. Measure volume, PH and color of the sample BEFORE you filter it.
4. Run your experiment and measure your data.
5. Compare your results with two other groups.
6. Independent research time
7. Re-design of experiment
8. Claim, Evidence and Reasoning

Student reflection (new thinking box)

- * What did you learn from doing this activity?
- * What are some things that you did really well in this activity?
- * Were the strategies, skills and procedure effective for this assignment?
- * Did you do an effective job of communicating your learning to others?
- * Why do you believe that we are studying water purity?

Our intentions

- * Strategies
- * Thinking behind why we chose this activity.

Reflection for teachers

- * Did the lesson move the students towards mastery of the concept and skills addressed in the objective?
- * Did I follow best practices and address the standards?
- * What opportunities are there for improvement?