MATERIALS:

pond water
rain water
dirty water (mix dirt and water)
four clear plastic cups labeled A, B, C, and D
small can with holes in bottom
paper towel
sand
microscopes
bottle with eye dropper filled with bleach
slides
goggles for each student
student sheet

I. Activity

- A. Get three samples of water from your teacher. Pour some pond water (A), rain water (B), and "dirty" water (C) into clear plastic cups. Label each.
- B. Observe a drop of pond water under the microscope and draw what you see.
- C. Observe a drop of rain water under the microscope and draw what you see.
- D. Observe a drop of dirty water under the microscope and draw what you see.
- E. Pour dirty water into a can with a paper towel and sand and set the can over a clear cup labeled D. Allow this to stand for 30 minutes.
- F. Add several drops of bleach to cup A. Observe what happens to the organisms after bleach is added.
- G. Compare cup A to cups B and C. Even water that appears to be clear must be disinfected with chemicals to make sure it is safe to drink.
- H. Treat the water in cups B and C by putting several drops of bleach in each.
- I. Stir cup A and compare it with the treated water in cups B and C. Look at a sample of each again with a microscope.
- J. Observe a sample of the water in cup D under the microscope.

II. Follow-Up	Name:
Answer the following questions:	
1. What did you observe?	
2. What is the difference between the water in cups A, B, and C	?
3. Is this filtered water clean enough to drink? Why or why not?	
3. Is this intered water clean enough to drink: Why or why hot:	
4 What are possible upon for this water?	
4. What are possible uses for this water?	
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5. What do you see in the microscope?	
6. What happens to the microorganisms when bleach contacts to	nem?
7.14	
7. What is potable water?	