

MOST*

Wandering Waters

Materials

- 2-liter soda bottle
- Filter supplies (coffee filters, cotton balls, dirt, gravel, sand, newspaper/napkins, etc.)
- Bowl for mixing polluted water
- Pollution supplies (vegetable or sesame oil, glitter, beans, food scraps, Kool-Aid powder or food coloring)

Instructions 1

To a large bowl or bottle of water, add the "pollutants":

- a. Sesame or Vegetable Oil = Oil
- b. Glitter, Plastic Toys, Beans = Garbage, Plastic Garbage
- c. Kool Aid Powder/Food Coloring = Microorganisms/Bacteria

2 Build a filter by cutting the top off of a 2-liter plastic bottle. Flip the top portion over and place it back into the bottle with the top facing down. Then, add your filter ingredients in layers -- we recommend a coffee filter, newspaper or napkins for the first layer!

Further Questions 1 How did your filter work? Did it filter out all three pollutants? How does your water look? (Probably still colored!) How does your water smell? (Probably still like sesame oil!) Is it clean enough to drink? (NO!)

2 What does this mean? How could we make the filter better? How can we reduce the need for a filter like this?

3 How can we reduce our water use? How can polluting lakes, streams, and ponds affect everyone?

4 How does your city or town filter and treat water?

