

-DIY Water Filter-

Materials Needed:

- Plastic water bottle
- Sand
- Small rocks
- Gravel
- Panty hose
- Rubber band
- Dirty water with sediment in it
- Scissors

Instructions:

1. Cut the bottom of the water bottle off about 1 inch from the bottom.
2. Take the lid of the water bottle off and put a piece of the panty hose over the mouth of the bottle and secure it with the rubber band.
3. Fill the bottle $\frac{1}{4}$ of the way with sand from the bottom.
4. Then fill the bottle to $\frac{1}{2}$ the bottle with small rocks on top of the sand.
5. Then fill with gravel to the top.
6. Pour in the dirty water with sediment in it. The sediment will not pass through the filter.

This same process can be seen in creeks with a sturdy bank of trees and roots. The roots help hold the sediment on the bank, allowing the water to pass through into the creek with little sediment, allowing for sediment free water, which helps keep our creeks and rivers clear.

