

# Create Your Own Water Filtration System

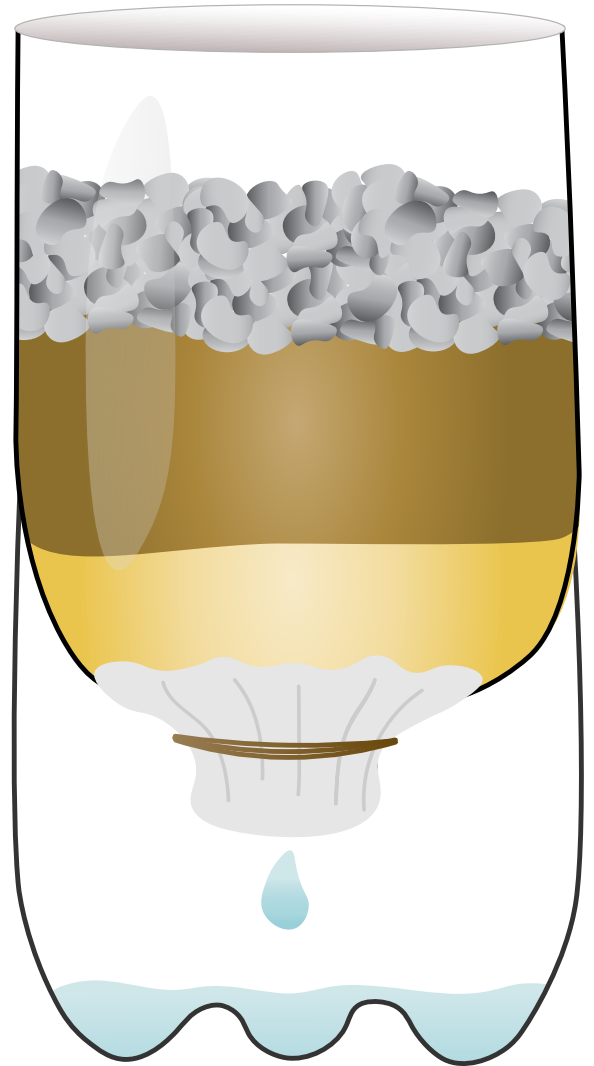
In nature, water is filtered when it flows through soil, sand, and rocks in the Earth. In this activity, you will make your own water filtration system and observe the effects on the water.

## Materials

- Clear plastic soda bottle
- Scissors
- Coffee filter
- Rubber band
- Fine sand
- Course sand
- Gravel
- Water

## Directions

1. Ask an adult to cut the top off the plastic soda bottle.
2. Remove the cap and cover the opening with a coffee filter using a rubber band.
3. Turn the bottle upside down and place it in the bottom half of the bottle.
4. Layer fine sand, course sand, and gravel in the top half of the bottle.
5. Slowly pour clean water through the top of your filtration system.
6. Slowly pour dirty water through the top of your filtration system and watch as it comes out clean!



**Palm Beach County Water Utilities**

wudpr@pbcwater.com  561-493-6000  pbcwater.com

